

BIBLIOMETRIC DATA EXPLORATION

# Analysis Report

*Article database*  
*jdbc:mysql://localhost:3306/bibxdb*

*Generated by BibX<sup>1</sup> on:*  
29.04.2016 at 14:57:12

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<sup>1</sup><http://github.com/mkkln/bibx>



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# 1 Summary statistics

Database: jdbc:mysql://localhost:3306/bibxldb?useSSL=false

Article count: 327

Total number of article pages: 5791

Average number of pages per article: 17.71

Unique author count: 705

Article-author relation count: 825

Average number of authors per article: 2.52

Unique author address count: 693

Article-address relation count: 717

Average number of addresses per article: 2.19

Unique source count: 150

Unique source WoS category count: 34

Source-source\_category relation count: 264

Average number of source WoS categories per source: 1.76

Source-source\_category relation count, weighted by source count: 610

Unique source research area count: 22

Source-source\_area relation count: 219

Average number of source research areas per source: 1.46

Source-source\_area relation count, weighted by source count: 495

Unique author keyword count: 750

Article-author\_keyword relation count: 1258

Average number of author keywords per article: 3.85

Unique keyword plus count: 789

Article-keyword\_plus relation count: 2873

Average number of keyword plus per article: 8.79

Unique cited reference count: 12780

Article-cited\_reference relation count: 22367

Average number of cited references per article: 68.40

Citations to the articles: 20315

Average number of citations per article: 62.13

## 2 Articles

Table 1: Number of articles per year (all years included)

Year	Count	%
2016	13	3.98
2015	40	12.23
2014	50	15.29
2013	44	13.46
2012	30	9.17
2011	30	9.17
2010	23	7.03
2009	20	6.12
2008	21	6.42
2007	11	3.36
2006	10	3.06
2005	13	3.98
2004	4	1.22
2003	5	1.53
2002	3	0.92
2001	4	1.22
2000	1	0.31
1999	1	0.31
1998	2	0.61
1996	1	0.31
1990	1	0.31
Total	327	100.00

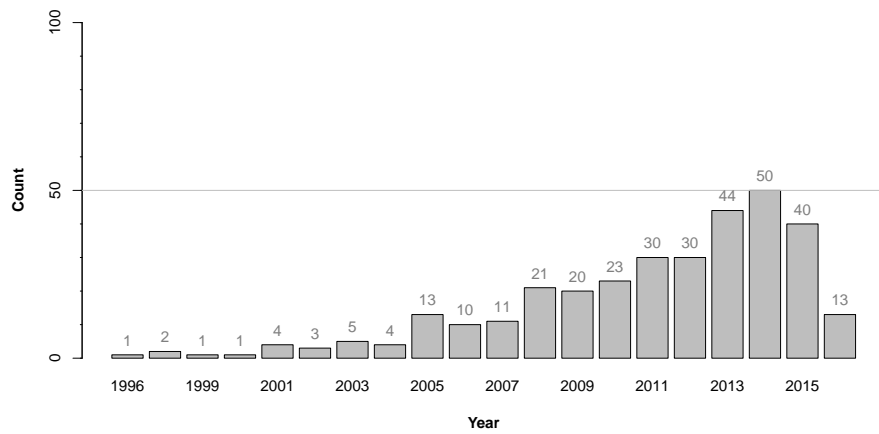


Figure 1: Articles per year (20 most recent years)

Table 2: Number of articles per type

Type	Count	%
Article	295	90.21
Review	18	5.50
Article; Proceedings Paper	13	3.98
Editorial Material	1	0.31
Total	327	100.00

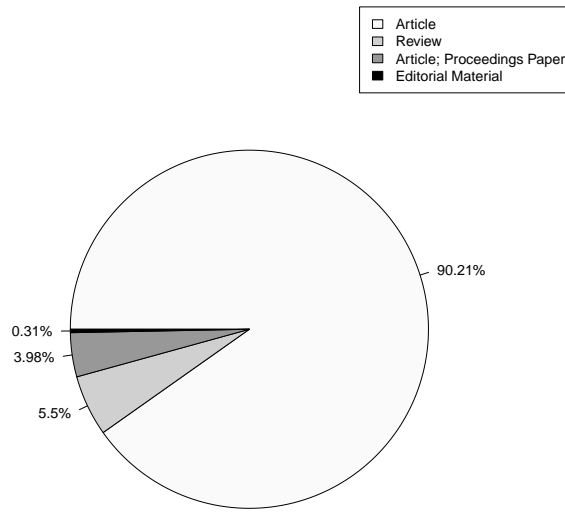


Figure 2: Articles per type

Table 3: 10 most cited articles

Author(s)	Year	Title	Source	Cited
COHEN, LEVINTHAL	1990	ABSORPTIVE-CAPACITY - A NEW PERSPECTIVE ON LEARNING AND INNOVATION	Administrative science quarterly	7703
Zahra, George	2002	Absorptive capacity: A review, reconceptualization, and extension	Academy of management review	1831
Lane, Lubatkin	1998	Relative absorptive capacity and interorganizational learning	Strategic management journal	1300
Tsai	2001	Knowledge transfer in intraorganizational networks: Effects of network position and absorptive capacity on business unit innovation and performance	Academy of management journal	933
Lane, Salk, Lyles	2001	Absorptive capacity, learning, and performance in international joint ventures	Strategic management journal	540
Lane, Koka, Pathak	2006	The reification of absorptive capacity: A critical review and rejuvenation of the construct	Academy of management review	455
Jansen, Van den Bosch, Volberda	2005	Managing potential and realized absorptive capacity: How do organizational antecedent's matter?	Academy of management journal	371
Cockburn, Henderson	1998	Absorptive capacity, coauthoring behavior, and the organization of research in drug discovery	Journal of industrial economics	354
Van den Bosch, Volberda, de Boer	1999	Coevolution of firm absorptive capacity and knowledge environment: Organizational forms and combinative capabilities	Organization science	331
Minbaeva, Pedersen, Bjorkman, Fey, Park ...	2003	MNC knowledge transfer, subsidiary absorptive capacity, and HRM	Journal of international business studies	304
Total				... 20315

### 3 Authors

Table 4: Number of articles per author count

Authors	Count	%
1	50	15.29
2	116	35.47
3	108	33.03
4	46	14.07
5	7	2.14
Total	327	100.00

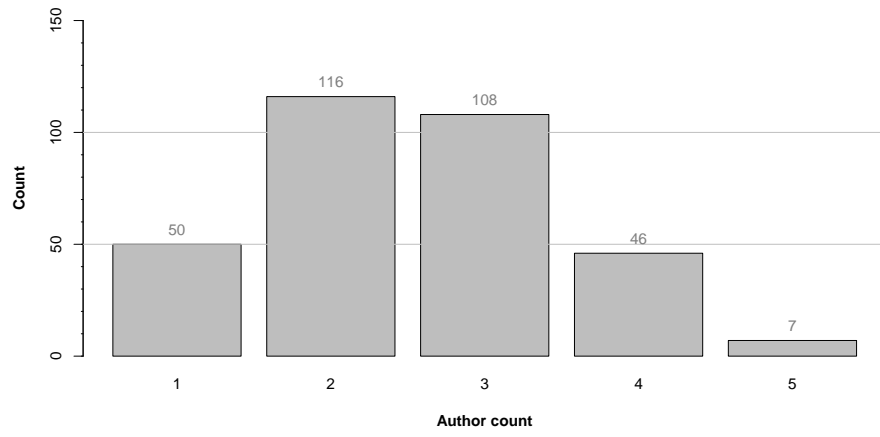


Figure 3: Articles per author count



Table 5: Number of authors with specific author order

Order	Count	%
1	327	39.64
2	277	33.58
3	161	19.52
4	53	6.42
5	7	0.85
Total	825	100.00

Table 6: 40 authors with most authorships

Name	Count	%
Hurmelinna-Laukkanen, P	5	0.61
Patel, PC	5	0.61
Pedersen, T	5	0.61
Zahra, SA	5	0.61
Bjorkman, I	4	0.48
Chen, YS	4	0.48
Garcia-Morales, VJ	4	0.48
Volberda, HW	4	0.48
Brettel, M	3	0.36
Camison, C	3	0.36
Chang, CH	3	0.36
Fey, CF	3	0.36
Flatten, TC	3	0.36
Fores, B	3	0.36
Gong, YP	3	0.36
Knoppen, D	3	0.36
Lane, PJ	3	0.36
Lichtenthaler, U	3	0.36
Lyles, MA	3	0.36
McAdam, R	3	0.36
Saenz, MJ	3	0.36
Van den Bosch, FAJ	3	0.36
Akbar, H	2	0.24
Al-Dajani, H	2	0.24
Anderson, MH	2	0.24
Aribi, A	2	0.24
Ariza-Montes, JA	2	0.24
Azagra-Caro, JM	2	0.24
Bolivar-Ramos, MT	2	0.24
Cegarra-Navarro, JG	2	0.24
Cepeda-Carrion, G	2	0.24
Chang, S	2	0.24
Clarysse, B	2	0.24
Dupouet, O	2	0.24
Egbetokun, A	2	0.24
Engelen, A	2	0.24
Exposito-Langa, M	2	0.24
Feeny, S	2	0.24
Fernandez-De-Lucio, I	2	0.24
Fosfuri, A	2	0.24
...		
Total	825	100.00

Note: Articles can list multiple authors

Table 7: 10 authors with most first authorships

Name	Count	%
Chen, YS	3	0.92
Hurmelinna-Laukkanen, P	3	0.92
Lane, PJ	3	0.92
Lichtenthaler, U	3	0.92
Zahra, SA	3	0.92
Aribi, A	2	0.61
Azagra-Caro, JM	2	0.61
Camison, C	2	0.61
Cepeda-Carrion, G	2	0.61
Exposito-Langa, M	2	0.61
...		
Total	327	100.00

Table 8: 10 authors with most second authorships

Name	Count	%
Pedersen, T	5	1.81
Anderson, MH	2	0.72
Clarysse, B	2	0.72
Dupouet, O	2	0.72
Fores, B	2	0.72
Garcia-Morales, VJ	2	0.72
Gong, YP	2	0.72
Hurmelinna-Laukkanen, P	2	0.72
Lichtenthaler, E	2	0.72
Massini, S	2	0.72
...		
Total	277	100.00

Table 9: 10 authors with most third authorships

Name	Count	%
Bjorkman, I	3	1.86
Lyles, MA	3	1.86
Brettel, M	2	1.24
Knockaert, M	2	1.24
Knoppen, D	2	1.24
Llorens-Montes, FJ	2	1.24
Martin-Rojas, R	2	1.24
Volberda, HW	2	1.24
Akbar, H	1	0.62
Antonacopoulou, E	1	0.62
...		
Total	161	100.00

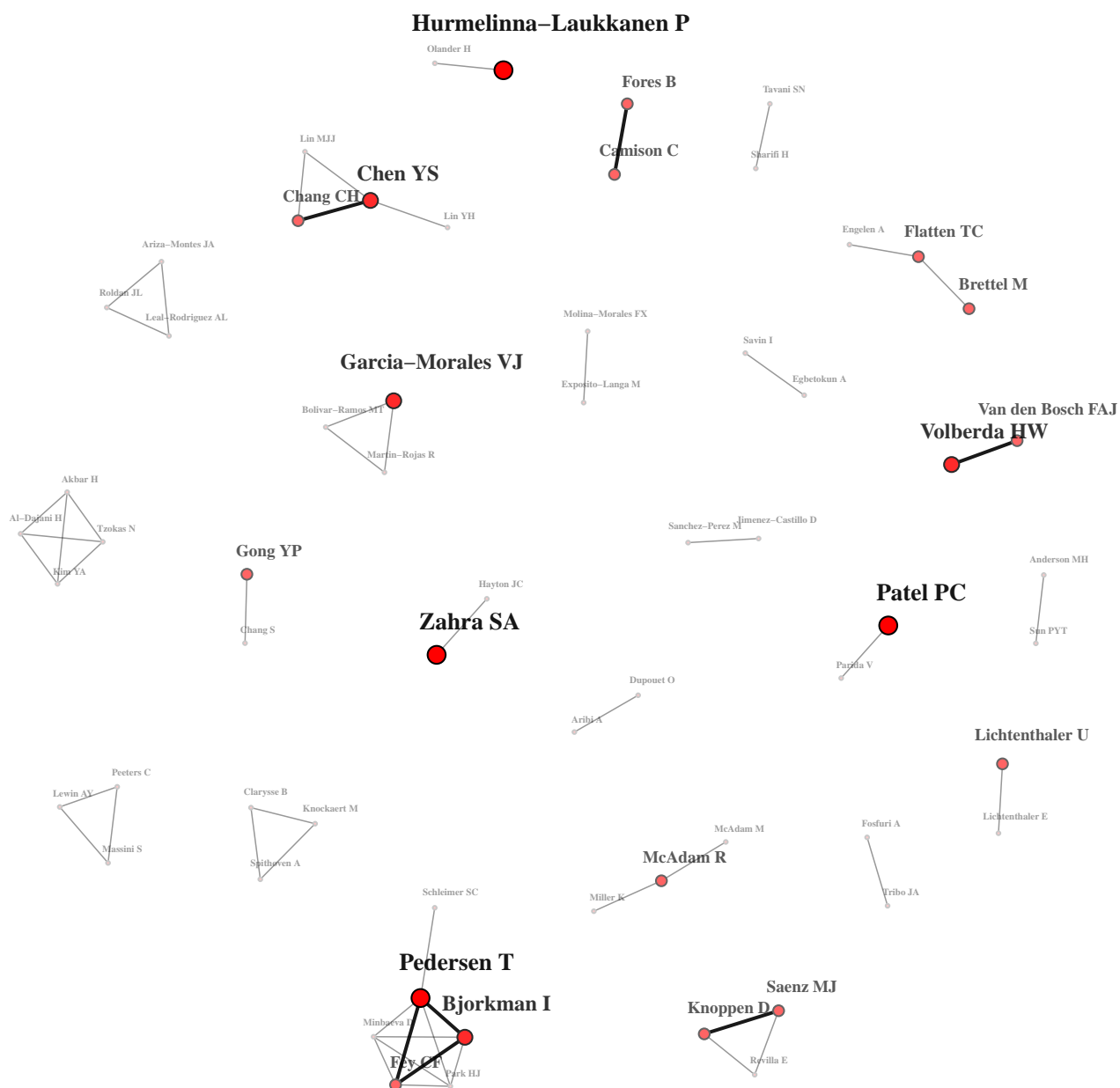


Figure 4: Coauthorship networks (only coauthorships recurring 2 times or more shown)

## 4 Addresses

Table 10: 40 most mentioned addresses

Name	Count	%
NONE	5	0.70
[Patel, Pankaj C.] Ball State Univ, Miller Coll Business, Muncie, IN 47306 USA.	4	0.56
[Gong, Yaping] Hong Kong Univ Sci & Technol, Hong Kong, Hong Kong, Peoples R China.	3	0.42
Natl Cheng Kung Univ, Dept Business Adm, Tainan 70101, Taiwan.	2	0.28
Univ Leicester, Dept Econ, Leicester LE1 7RH, Leics, England.	2	0.28
Univ So Calif, Marshall Sch Business, Los Angeles, CA 90089 USA.	2	0.28
[Camison, Cesar; Fores, Beatriz] Univ Jaume I, Dept Business Adm & Mkt, E-12071 Castellon de La	2	0.28
[Cepeda-Carrion, Gabriel] Univ Seville, Management & Mkt Dept, Seville 3441018, Spain.	2	0.28
[Clarysse, Bart; Knockaert, Mirjam] Univ Ghent, B-9000 Ghent, Belgium.	2	0.28
[Clarysse, Bart] Univ London Imperial Coll Sci Technol & Med, Sch Business, London SW7 2AZ, Eng	2	0.28
[Hurmelinna-Laukkanen, Pia] Univ Oulu, Oulu Business Sch, Oulu, Finland.	2	0.28
[Knockaert, Mirjam] Univ Oslo, N-0318 Oslo, Norway.	2	0.28
[Lichtenthaler, Eckhard] Swiss Fed Inst Technol Zurich ETHZ, Zurich, Switzerland.	2	0.28
[McAdam, Maura] Queens Univ Belfast, Sch Management & Econ, Belfast BT7 1NN, Antrim, North Irel	2	0.28
[Pedersen, Torben] Bocconi Univ, Milan, Italy.	2	0.28
[Spithoven, Andre] Belgian Sci Policy, B-1000 Brussels, Belgium.	2	0.28
[Spithoven, Andre] Vlerick Leuven Gent Management Sch, B-9000 Ghent, Belgium.	2	0.28
[Sun, Peter Y. T.] Univ Waikato, Waikato Management Sch, Hamilton 3240, New Zealand.	2	0.28
Arizona State Univ, Coll Business, Tempe, AZ 85287 USA.	1	0.14
Arizona State Univ, WP Carey Sch Business, Tempe, AZ 85287 USA.	1	0.14
Aston Univ, Aston Business Sch, Birmingham B4 7ET, W Midlands, England.	1	0.14
Babson Coll, Arthur M Blank Ctr Entrepreneurship, Babson Pk, MA 02457 USA.	1	0.14
Carnegie Mellon Univ, Pittsburgh, PA 15213 USA.	1	0.14
Case Western Reserve Univ, Weatherhead Sch Management, Div Entrepreneurship, Cleveland, OH 4410	1	0.14
Chonnam Natl Univ, E Serv Team Free21, Kwangju 500757, South Korea.	1	0.14
Colorado Sch Mines, Div Econ & Business, Golden, CO 80401 USA.	1	0.14
Colorado State Univ, Coll Business, Ft Collins, CO 80523 USA.	1	0.14
Copenhagen Business Sch, Copenhagen, Denmark.	1	0.14
Copenhagen Sch Econ & Business Adm, Dept Int Econ & Managment, DK-2000 Copenhagen, Denmark.	1	0.14
Cornell Univ, Ithaca, NY 14853 USA.	1	0.14
Ctr European Econ Res, D-68161 Mannheim, Germany.	1	0.14
Dartmouth Coll, Dept Econ, Hanover, NH 03755 USA.	1	0.14
Dartmouth Coll, Tuck Sch Business, Hanover, NH USA.	1	0.14
Depaul Univ, Dept Management, Chicago, IL 60604 USA.	1	0.14
Dept Strategy & Management, Grp ESSEC, Cergy Pontoise, France.	1	0.14
Duke Univ, Fuqua Sch Business, Durham, NC 27708 USA.	1	0.14
Ecole Management Lyon, Lyon, France.	1	0.14
Ecole Polytech Fed Lausanne, Coll Management Technol, MTEI CEMI, EPFL, CH-1015 Lausanne, Switze	1	0.14
Eindhoven Univ Technol, ECIS, NL-5612 AZ Eindhoven, Netherlands.	1	0.14
Erasmus Univ, Dept Mkt Management, Rotterdam, Netherlands.	1	0.14
...		
Total	717	100.00

Note: Articles can list multiple addresses

Table 11: 40 most mentioned countries in the addresses

Name	Count	%
USA	143	19.94
Spain	82	11.44
England	70	9.76
Taiwan	48	6.69
Peoples R. China	35	4.88
Netherlands	33	4.60
Germany	32	4.46
Italy	26	3.63
Finland	25	3.49
France	25	3.49
Australia	24	3.35
Belgium	19	2.65
South Korea	19	2.65
Canada	18	2.51
Denmark	11	1.53
Norway	11	1.53
Switzerland	11	1.53
North Ireland	8	1.12
Sweden	8	1.12
Austria	6	0.84
NONE	5	0.70
Portugal	5	0.70
Russia	5	0.70
Scotland	5	0.70
Israel	4	0.56
Japan	4	0.56
Poland	4	0.56
Slovenia	4	0.56
Colombia	3	0.42
New Zealand	3	0.42
Thailand	3	0.42
Ecuador	2	0.28
Greece	2	0.28
Ireland	2	0.28
Serbia	2	0.28
Singapore	2	0.28
Iran	1	0.14
Kazakhstan	1	0.14
Nigeria	1	0.14
Saudi Arabia	1	0.14
...		
Total	717	100.00

Note: Articles can list multiple addresses

Table 12: 40 most mentioned countries in the addresses, U.S. states separated

Name	Count	%
Spain	82	11.44
England	70	9.76
Taiwan	48	6.69
Peoples R China	35	4.88
Netherlands	33	4.60
Germany	32	4.46
Italy	26	3.63
Finland	25	3.49
France	25	3.49
Australia	24	3.35
Belgium	19	2.65
South Korea	19	2.65
Canada	18	2.51
Denmark	11	1.53
IN USA	11	1.53
Norway	11	1.53
Switzerland	11	1.53
NY USA	9	1.26
TX USA	9	1.26
MA USA	8	1.12
North Ireland	8	1.12
OH USA	8	1.12
PA USA	8	1.12
Sweden	8	1.12
GA USA	7	0.98
Austria	6	0.84
CA USA	6	0.84
MN USA	6	0.84
NC USA	6	0.84
AZ USA	5	0.70
CO USA	5	0.70
IL USA	5	0.70
MI USA	5	0.70
NONE	5	0.70
Portugal	5	0.70
Russia	5	0.70
Scotland	5	0.70
VA USA	5	0.70
Israel	4	0.56
Japan	4	0.56
...		
Total	717	100.00

Note: Articles can list multiple addresses

Table 13: 40 most mentioned countries in the addresses, U.S. states and zip codes separated

Name	Count	%
Spain	82	11.44
England	70	9.76
Taiwan	48	6.69
Peoples R China	35	4.88
Netherlands	33	4.60
Germany	32	4.46
Italy	26	3.63
Finland	25	3.49
France	25	3.49
Australia	24	3.35
Belgium	19	2.65
South Korea	19	2.65
Canada	18	2.51
Denmark	11	1.53
Norway	11	1.53
Switzerland	11	1.53
North Ireland	8	1.12
Sweden	8	1.12
Austria	6	0.84
MN 55455 USA	6	0.84
IN 47306 USA	5	0.70
NONE	5	0.70
Portugal	5	0.70
Russia	5	0.70
Scotland	5	0.70
Israel	4	0.56
Japan	4	0.56
Poland	4	0.56
Slovenia	4	0.56
Colombia	3	0.42
GA 30303 USA	3	0.42
MA 02138 USA	3	0.42
New Zealand	3	0.42
NJ 08855 USA	3	0.42
NY 14853 USA	3	0.42
OH 43606 USA	3	0.42
Thailand	3	0.42
AK USA	2	0.28
AZ 85287 USA	2	0.28
AZ USA	2	0.28
...		
Total	717	100.00

Note: Articles can list multiple addresses



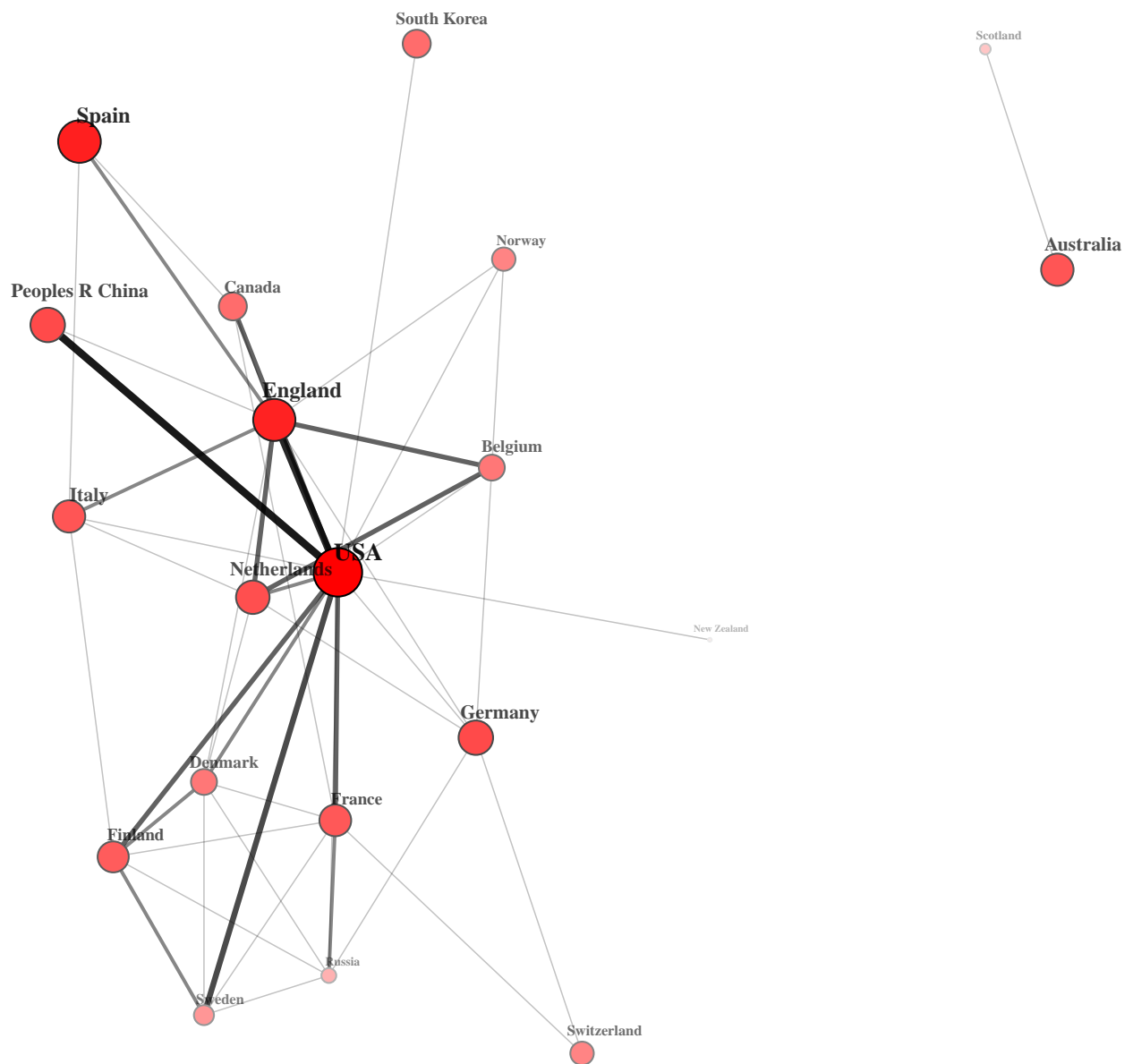


Figure 5: Country ties (only ties recurring 2 times or more shown)

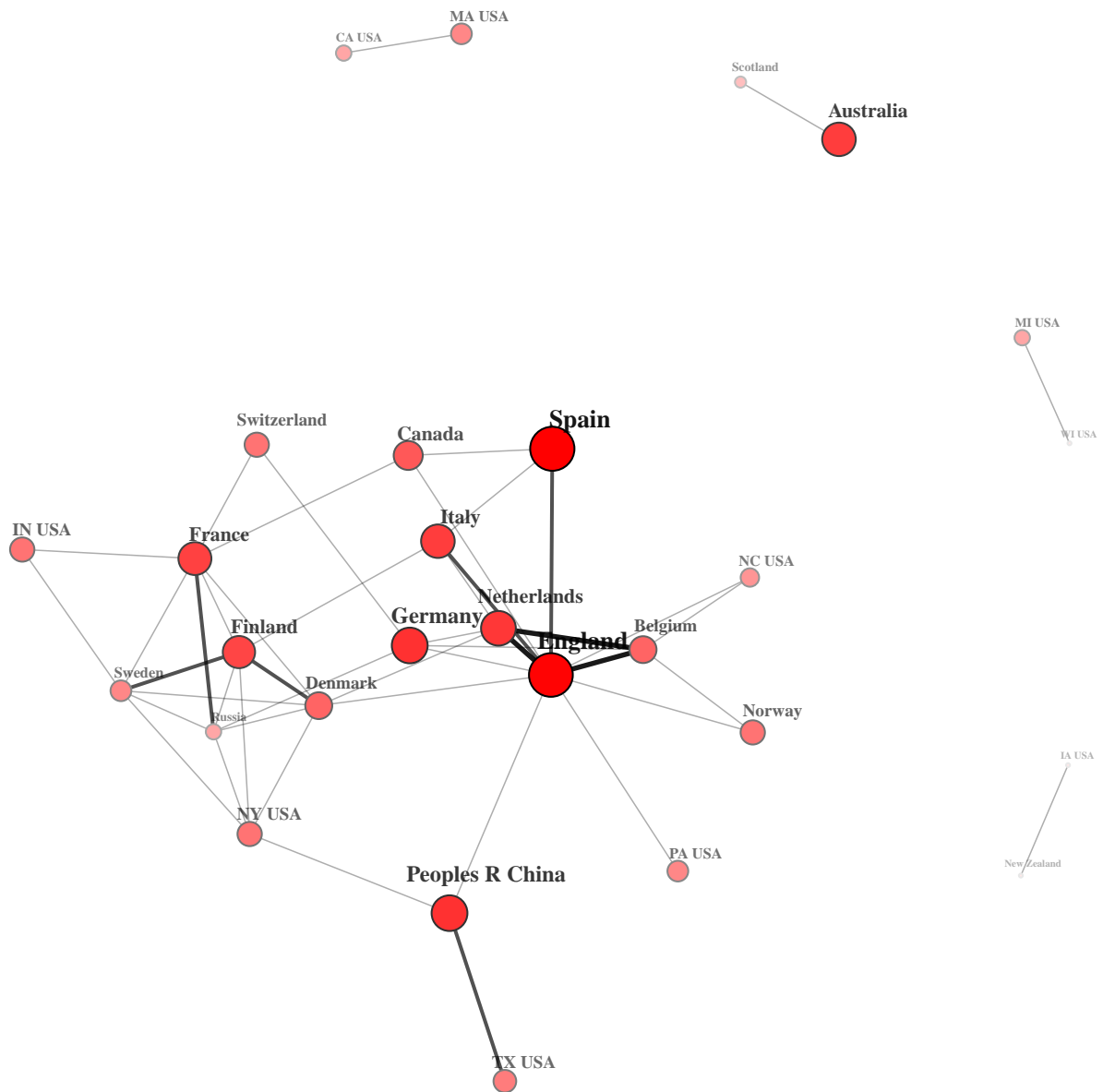


Figure 6: Country ties, U.S. states separated (only ties recurring 2 times or more shown)

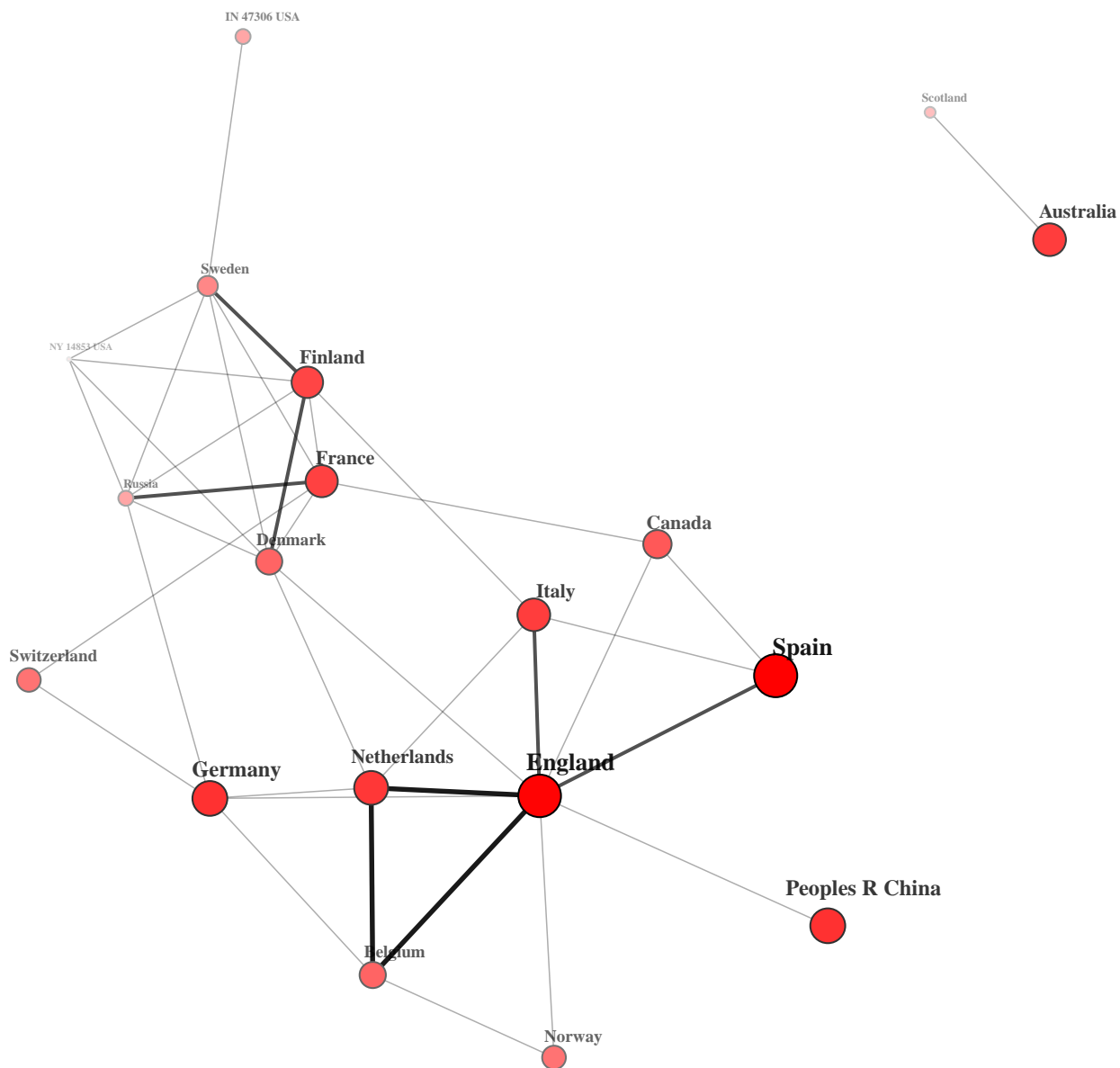


Figure 7: Country ties, U.S. states and zip codes separated (only ties recurring 2 times or more shown)

Table 14: 40 most mentioned institutions in the addresses

Name	Count	%
Erasmus Univ	8	1.12
Natl Cheng Kung Univ	8	1.12
Univ Nottingham	8	1.12
Copenhagen Business Sch	6	0.84
Univ Granada	6	0.84
Univ Minnesota	6	0.84
Univ Politecn Valencia	6	0.84
Ball State Univ	5	0.70
Indiana Univ	5	0.70
Lappeenranta Univ Technol	5	0.70
Natl Cent Univ	5	0.70
NONE	5	0.70
Stockholm Sch Econ	5	0.70
Univ Jaume 1	5	0.70
Univ Oulu	5	0.70
Univ Ulster	5	0.70
Univ Zaragoza	5	0.70
Georgia State Univ	4	0.56
Tamkang Univ	4	0.56
Tampere Univ Technol	4	0.56
Univ E Anglia	4	0.56
Univ Liverpool	4	0.56
Univ Loyola Andalucia	4	0.56
Univ Seville	4	0.56
Univ Sussex	4	0.56
Univ Toledo	4	0.56
Aalto Univ	3	0.42
Aix Marseille Univ	3	0.42
Arizona State Univ	3	0.42
Bocconi Univ	3	0.42
Chinese Univ Hong Kong	3	0.42
City Univ Hong Kong	3	0.42
Cornell Univ	3	0.42
Duke Univ	3	0.42
Griffith Univ	3	0.42
Hong Kong Univ Sci & Technol	3	0.42
INSEAD	3	0.42
Iowa State Univ	3	0.42
Maastricht Univ	3	0.42
Natl Taipei Univ	3	0.42
...		
Total	717	100.00

Note: Articles can list multiple addresses

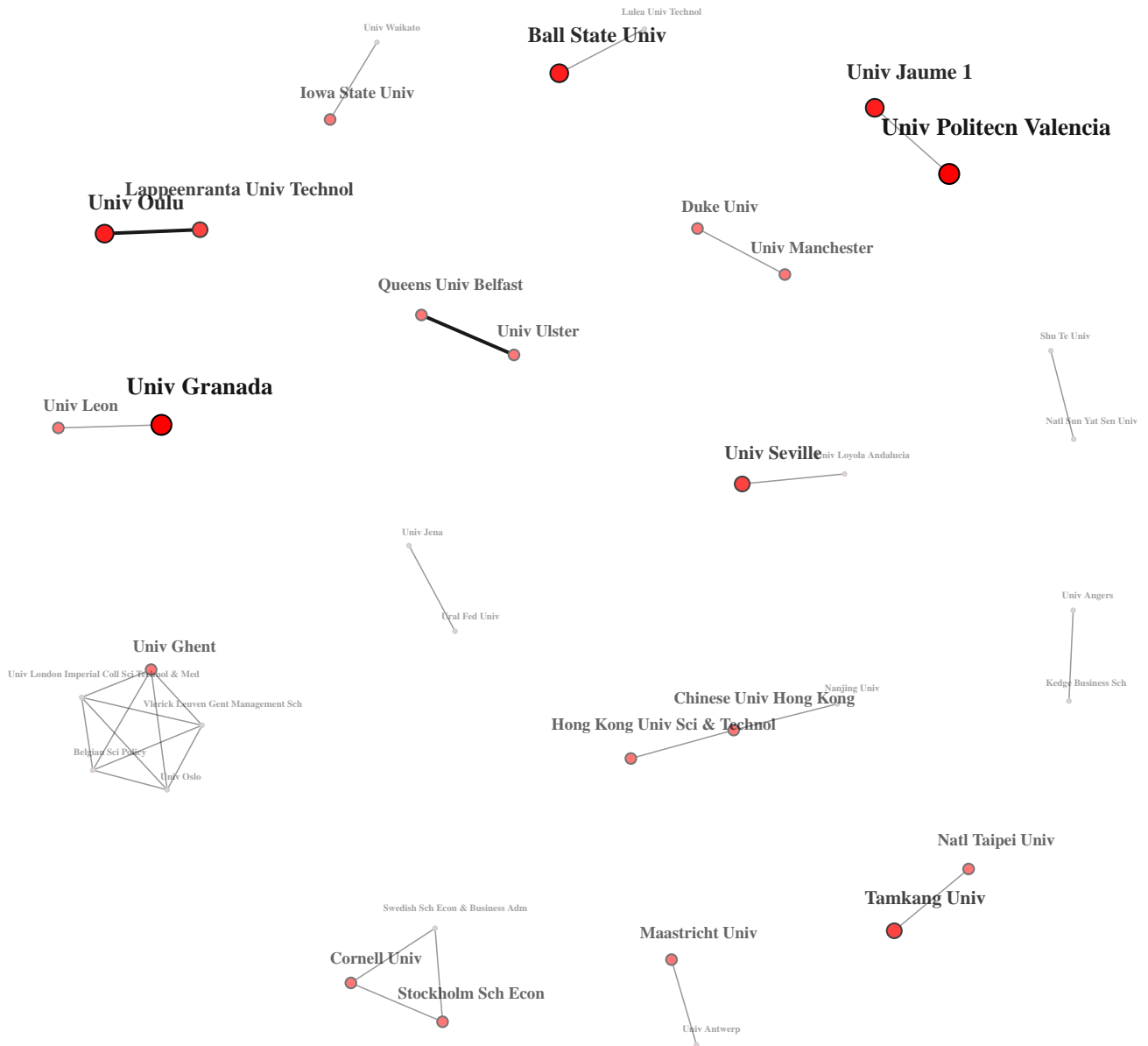


Figure 8: Institutional ties (only ties recurring 2 times or more shown)

## 5 Sources

Table 15: 40 sources with most articles

Name	Count	%
Research policy	15	4.59
Strategic management journal	11	3.36
Technovation	11	3.36
R & d management	10	3.06
Journal of business research	8	2.45
European management journal	7	2.14
Technology analysis & strategic management	7	2.14
Industrial marketing management	6	1.83
Journal of international business studies	6	1.83
Academy of management journal	5	1.53
International business review	5	1.53
Management learning	5	1.53
Organization science	5	1.53
Technological forecasting and social change	5	1.53
Ieee transactions on engineering management	4	1.22
International journal of industrial organization	4	1.22
International journal of operations & production management	4	1.22
International journal of production research	4	1.22
International journal of technology management	4	1.22
International small business journal	4	1.22
Journal of knowledge management	4	1.22
Journal of technology transfer	4	1.22
Management decision	4	1.22
Academy of management review	3	0.92
Economic modelling	3	0.92
European planning studies	3	0.92
Industrial management & data systems	3	0.92
Industry and innovation	3	0.92
Information & management	3	0.92
International journal of project management	3	0.92
Journal of information science	3	0.92
Journal of international trade & economic development	3	0.92
Journal of management	3	0.92
Journal of operations management	3	0.92
Journal of product innovation management	3	0.92
Journal of supply chain management	3	0.92
Mis quarterly	3	0.92
Oxford bulletin of economics and statistics	3	0.92
Service industries journal	3	0.92
Small business economics	3	0.92
...		
Total	327	100.00

Table 16: 34 Web of Science categories with most occurrences in unique sources

Name	Count	%
Management	67	25.38
Economics	46	17.42
Business	45	17.05
Information science & library science	17	6.44
Computer science, information systems	10	3.79
Engineering, industrial	10	3.79
Environmental studies	10	3.79
Planning & development	10	3.79
Operations research & management science	9	3.41
Geography	5	1.89
Business, finance	4	1.52
Computer science, interdisciplinary applications	3	1.14
Urban studies	3	1.14
Engineering, manufacturing	2	0.76
International relations	2	0.76
Psychology, applied	2	0.76
Social sciences, mathematical methods	2	0.76
Agricultural economics & policy	1	0.38
Area studies	1	0.38
Communication	1	0.38
Computer science, artificial intelligence	1	0.38
Computer science, theory & methods	1	0.38
Construction & building technology	1	0.38
Engineering, civil	1	0.38
Engineering, multidisciplinary	1	0.38
Environmental sciences	1	0.38
Food science & technology	1	0.38
History of social sciences	1	0.38
Hospitality, leisure, sport & tourism	1	0.38
Multidisciplinary sciences	1	0.38
Political science	1	0.38
Public administration	1	0.38
Statistics & probability	1	0.38
Telecommunications	1	0.38
Total	264	100.00

Note: Sources can list multiple Web of Science categories

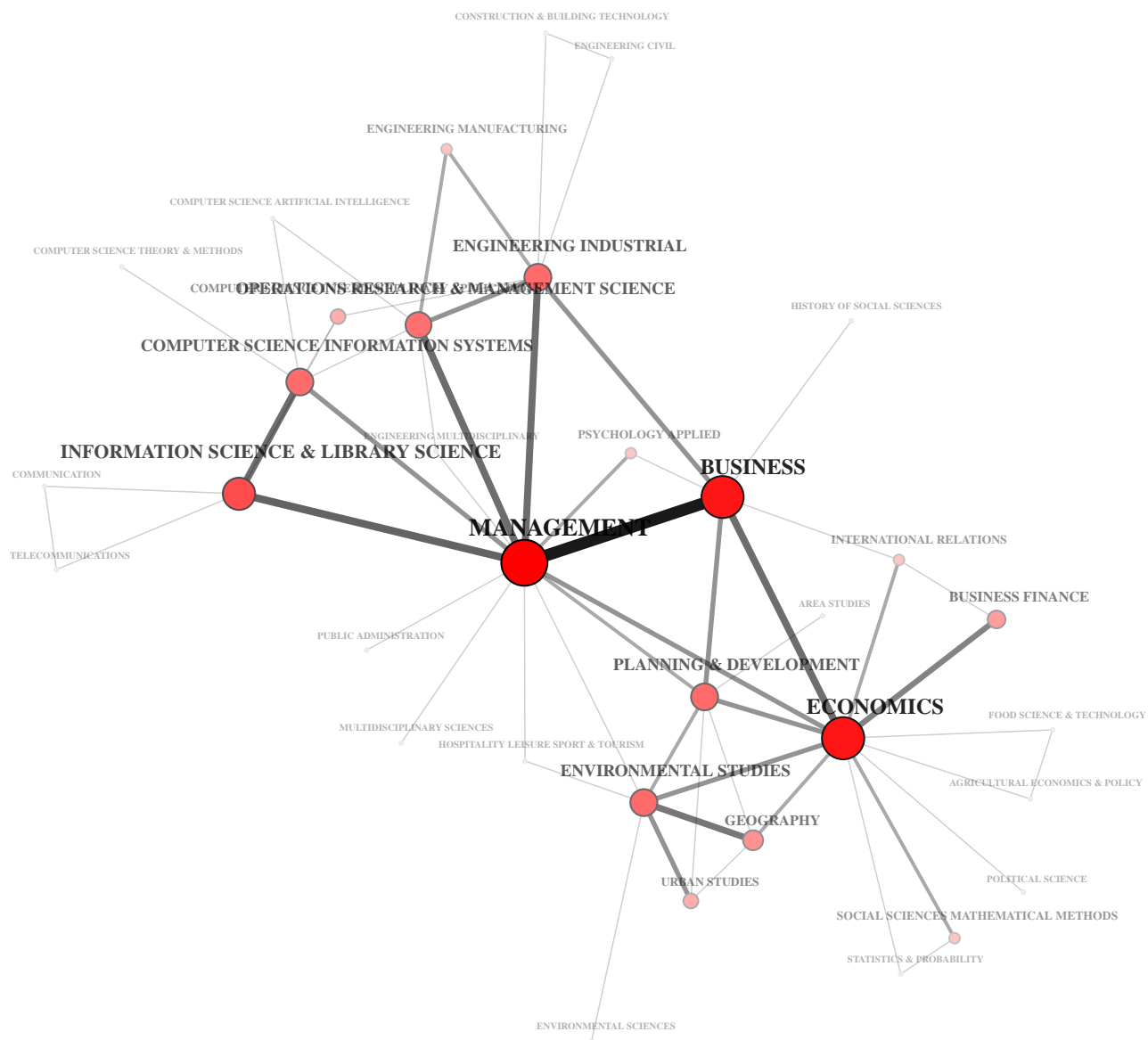


Figure 9: Web of Science categories with most occurrences in unique sources



Table 17: 34 Web of Science categories with most occurrences in the sources, weighted by source count

Name	Count	%
Management	196	32.13
Business	125	20.49
Economics	69	11.31
Engineering, industrial	34	5.57
Planning & development	33	5.41
Information science & library science	28	4.59
Operations research & management science	27	4.43
Computer science, information systems	16	2.62
Environmental studies	15	2.46
Geography	8	1.31
Multidisciplinary sciences	7	1.15
Computer science, interdisciplinary applications	6	0.98
Engineering, manufacturing	5	0.82
Urban studies	5	0.82
Business, finance	4	0.66
Engineering, multidisciplinary	4	0.66
Psychology, applied	4	0.66
Social sciences, mathematical methods	4	0.66
Statistics & probability	3	0.49
Environmental sciences	2	0.33
International relations	2	0.33
Agricultural economics & policy	1	0.16
Area studies	1	0.16
Communication	1	0.16
Computer science, artificial intelligence	1	0.16
Computer science, theory & methods	1	0.16
Construction & building technology	1	0.16
Engineering, civil	1	0.16
Food science & technology	1	0.16
History of social sciences	1	0.16
Hospitality, leisure, sport & tourism	1	0.16
Political science	1	0.16
Public administration	1	0.16
Telecommunications	1	0.16
Total	610	100.00

Note: Sources can list multiple Web of Science categories

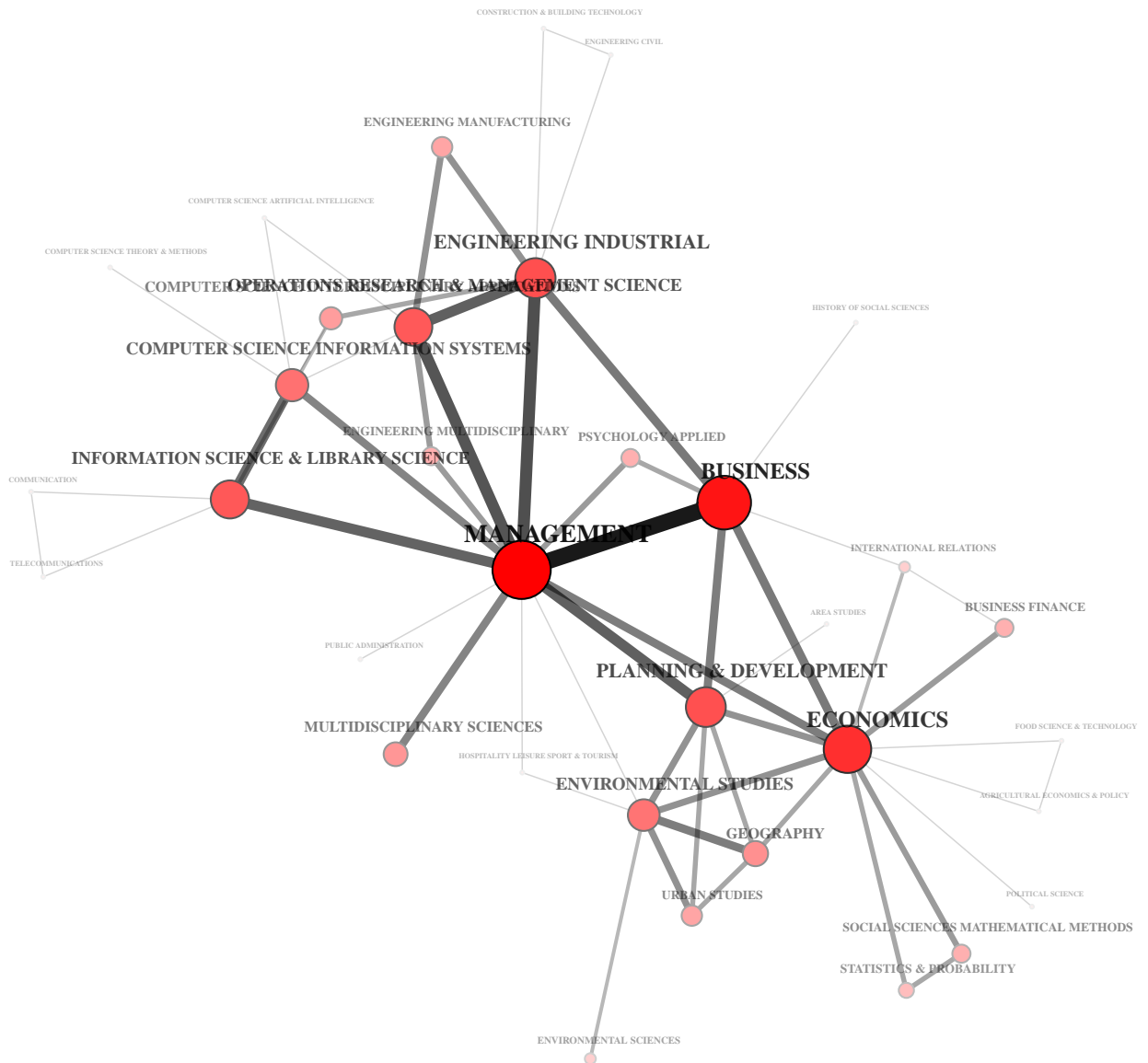


Figure 10: Web of Science categories with most occurrences in the sources, weighted by source count

Table 18: 22 research areas with most occurrences in unique sources

Name	Count	%
Business & economics	124	56.62
Information science & library science	17	7.76
Computer science	12	5.48
Engineering	11	5.02
Public administration	11	5.02
Environmental sciences & ecology	10	4.57
Operations research & management science	9	4.11
Geography	5	2.28
Urban studies	3	1.37
International relations	2	0.91
Mathematical methods in social sciences	2	0.91
Psychology	2	0.91
Social sciences - other topics	2	0.91
Agriculture	1	0.46
Area studies	1	0.46
Communication	1	0.46
Construction & building technology	1	0.46
Food science & technology	1	0.46
Government & law	1	0.46
Mathematics	1	0.46
Science & technology - other topics	1	0.46
Telecommunications	1	0.46
Total	219	100.00

Note: Sources can list multiple research areas

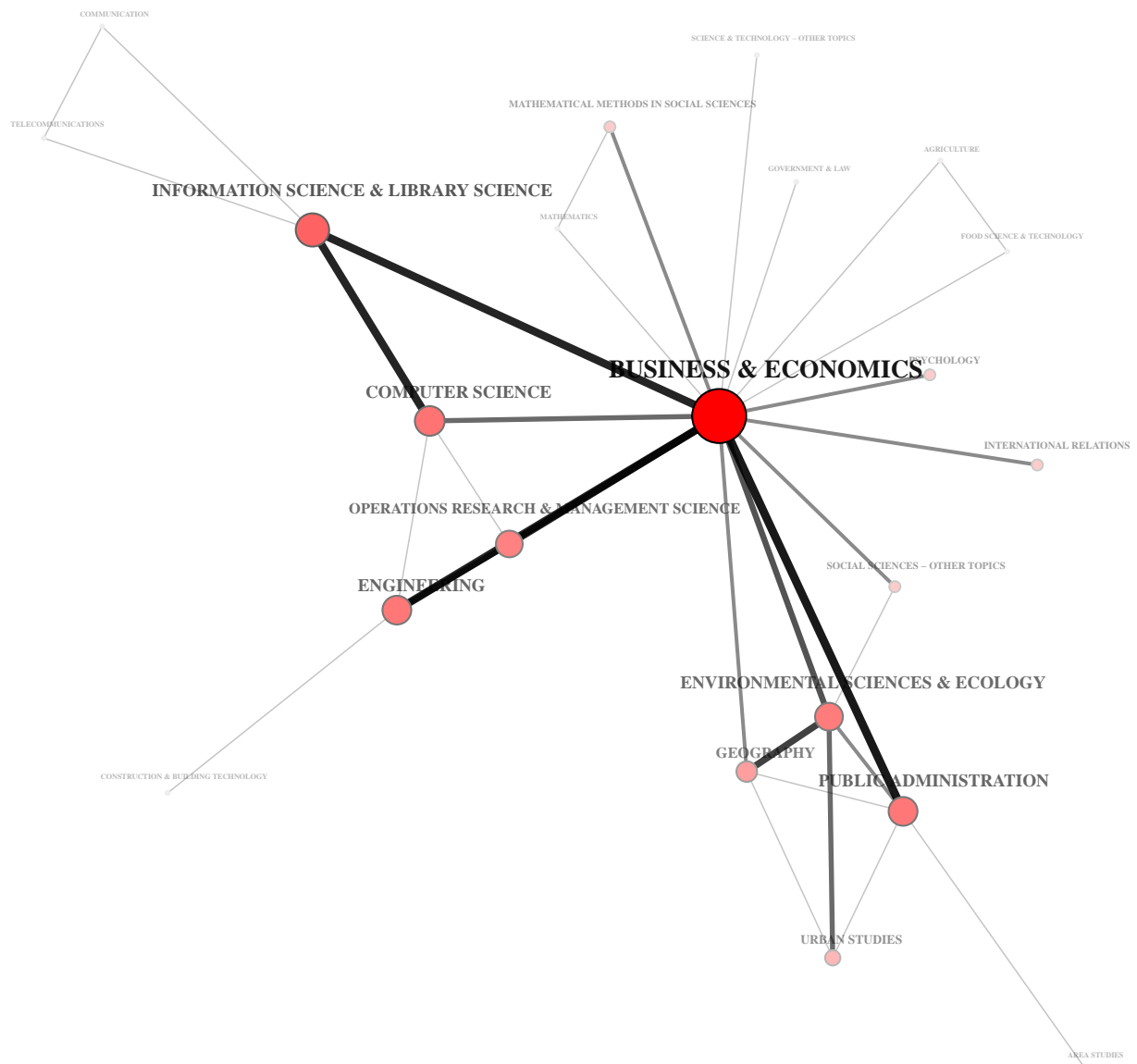


Figure 11: Research areas with most occurrences in unique sources

Table 19: 22 research areas with most occurrences in the sources, weighted by source count

Name	Count	%
Business & economics	290	58.59
Engineering	38	7.68
Public administration	34	6.87
Information science & library science	28	5.66
Operations research & management science	27	5.45
Computer science	21	4.24
Environmental sciences & ecology	15	3.03
Geography	8	1.62
Science & technology - other topics	7	1.41
Urban studies	5	1.01
Mathematical methods in social sciences	4	0.81
Psychology	4	0.81
Mathematics	3	0.61
International relations	2	0.40
Social sciences - other topics	2	0.40
Agriculture	1	0.20
Area studies	1	0.20
Communication	1	0.20
Construction & building technology	1	0.20
Food science & technology	1	0.20
Government & law	1	0.20
Telecommunications	1	0.20
Total	495	100.00

Note: Sources can list multiple research areas

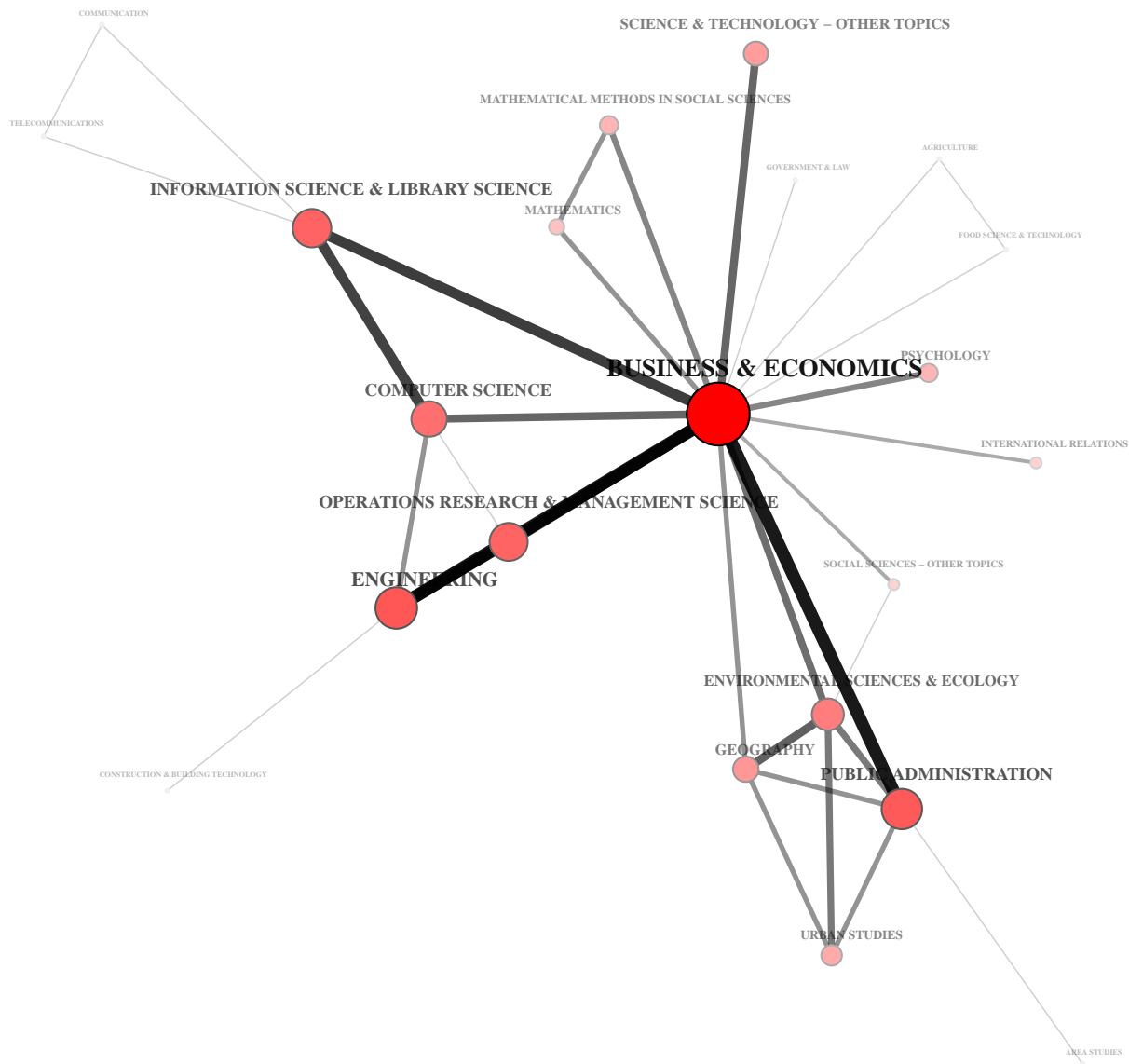


Figure 12: Research areas with most occurrences in the sources, weighted by source count

## 6 Keywords

Table 20: 40 most mentioned author keywords

Name	Count	%
Absorptive capacity	211	16.77
Innovation	42	3.34
Knowledge management	17	1.35
R&d	14	1.11
Organizational learning	13	1.03
Knowledge	11	0.87
Human capital	9	0.72
Foreign direct investment	8	0.64
Performance	8	0.64
Dynamic capabilities	7	0.56
Economic growth	7	0.56
Knowledge transfer	7	0.56
Open innovation	7	0.56
Smes	7	0.56
Cognitive distance	6	0.48
Knowledge acquisition	6	0.48
Productivity	6	0.48
Social capital	6	0.48
Alliances	5	0.40
China	5	0.40
Innovation performance	5	0.40
Knowledge spillovers	5	0.40
Learning	5	0.40
Structural equation modeling	5	0.40
Entrepreneurial orientation	4	0.32
Innovation capability	4	0.32
Networks	4	0.32
New product development	4	0.32
Patents	4	0.32
Realised absorptive capacity	4	0.32
Acquisitions	3	0.24
Appropriability	3	0.24
Corporate entrepreneurship	3	0.24
Fdi	3	0.24
Internationalization	3	0.24
Knowledge spillover	3	0.24
Korea	3	0.24
Learning processes	3	0.24
Marketing strategy	3	0.24
Organizational culture	3	0.24
...		
Total	1258	100.00

Note: Articles can list multiple author keywords

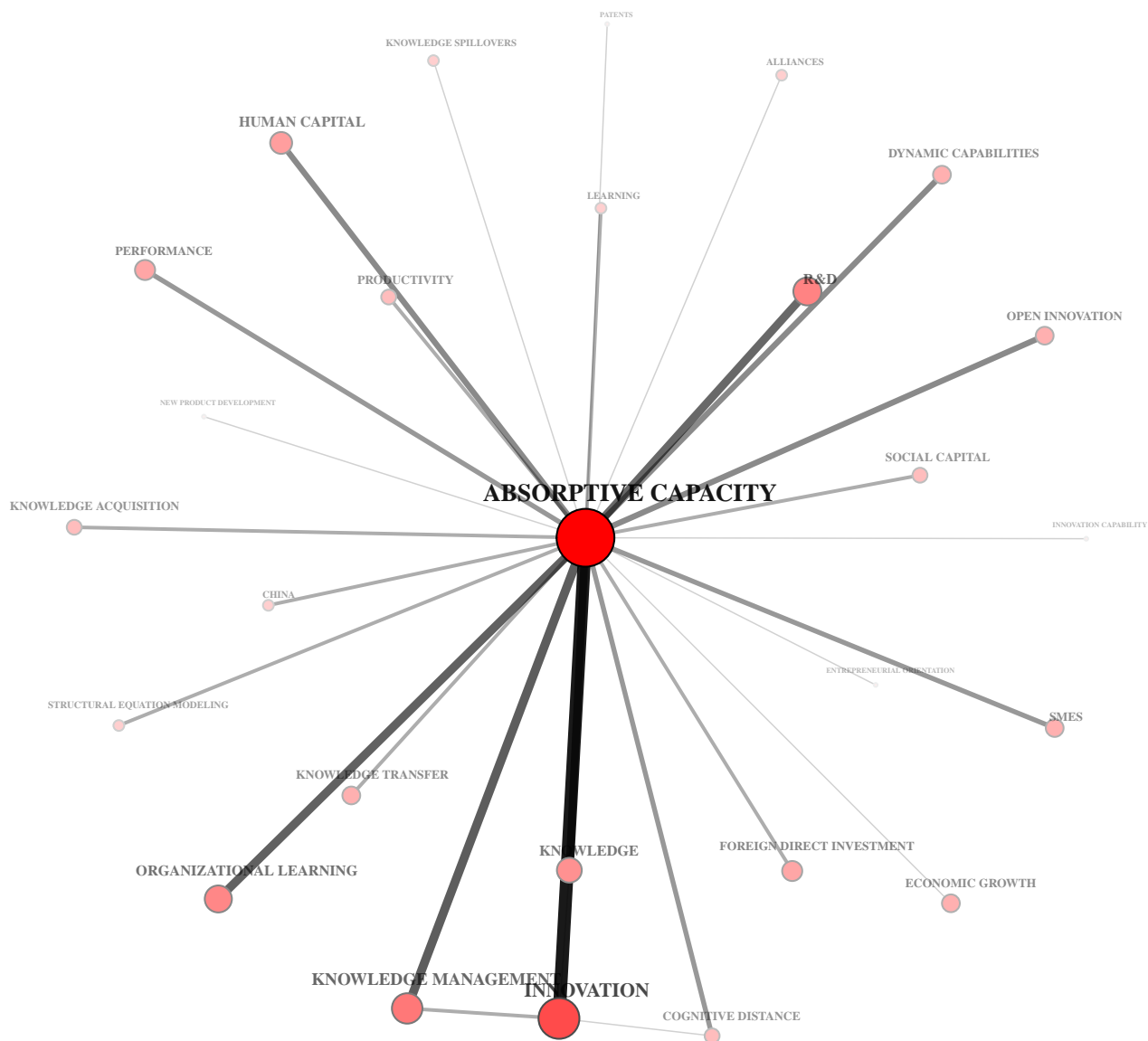


Figure 13: Author keywords' relatedness (only keywords co-occurring 4 times or more shown)



Table 21: 40 most mentioned keywords plus

Name	Count	%
Innovation	131	4.56
Performance	100	3.48
Research-and-development	80	2.78
Competitive advantage	77	2.68
Perspective	65	2.26
Knowledge	59	2.05
Technology	54	1.88
Firm	53	1.84
Knowledge transfer	52	1.81
Strategic alliances	48	1.67
Dynamic capabilities	46	1.60
Capabilities	41	1.43
Product development	41	1.43
Management	39	1.36
Reconceptualization	38	1.32
Firm performance	35	1.22
Industry	33	1.15
Firms	32	1.11
Organizations	28	0.97
Antecedents	25	0.87
Networks	24	0.84
Impact	23	0.80
Model	23	0.80
Resource-based view	23	0.80
Productivity	22	0.77
Spillovers	22	0.77
Combinative capabilities	21	0.73
Innovation performance	19	0.66
Systems	17	0.59
Joint ventures	15	0.52
Market orientation	15	0.52
Determinants	14	0.49
Growth	14	0.49
Technology-transfer	14	0.49
Empirical-analysis	13	0.45
Foreign direct-investment	13	0.45
Information-technology	12	0.42
International-joint-ventures	12	0.42
Knowledge management	12	0.42
Strategy	11	0.38
...		
Total	2873	100.00

Note: Articles can list multiple keywords plus

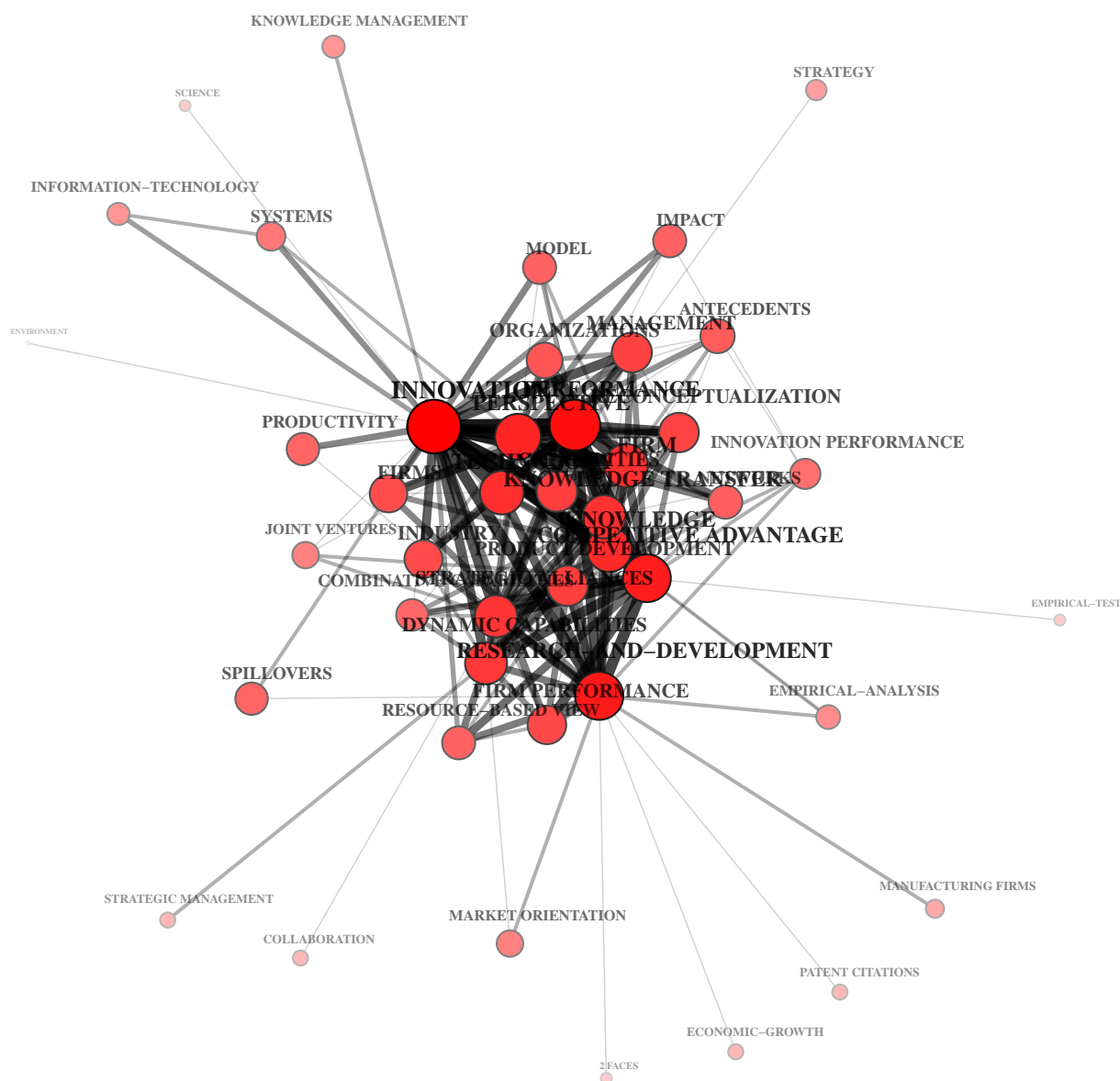


Figure 14: Keywords plus' relatedness (only keywords co-occurring 6 times or more shown)

## 7 Cited references

Table 22: 40 most cited references

Name	Count	%
COHEN WM, 1990, ADMIN SCI QUART, V35, P128	269	1.20
ZAHRA SA, 2002, ACAD MANAGE REV, V27, P185	223	1.00
LANE PJ, 1998, STRATEGIC MANAGE J, V19, P461	137	0.61
LANE PJ, 2006, ACAD MANAGE REV, V31, P833	124	0.55
COHEN WM, 1989, ECON J, V99, P569	113	0.51
JANSEN JJP, 2005, ACAD MANAGE J, V48, P999	99	0.44
SZULANSKI G, 1996, STRATEGIC MANAGE J, V17, P27	97	0.43
LANE PJ, 2001, STRATEGIC MANAGE J, V22, P1139	89	0.40
TODOROVA G, 2007, ACAD MANAGE REV, V32, P774	85	0.38
TSAI WP, 2001, ACAD MANAGE J, V44, P996	84	0.38
VAN DEN BOSCH FAJ, 1999, ORGAN SCI, V10, P551	71	0.32
VOLBERDA HW, 2010, ORGAN SCI, V21, P931	63	0.28
KOGUT B, 1992, ORGAN SCI, V3, P383	56	0.25
TEECE DJ, 1997, STRATEGIC MANAGE J, V18, P509	56	0.25
MOWERY DC, 1996, STRATEGIC MANAGE J, V17, P77	55	0.25
MARCH JG, 1991, ORGAN SCI, V2, P71	54	0.24
DYER JH, 1998, ACAD MANAGE REV, V23, P660	50	0.22
LICHTENTHALER U, 2009, ACAD MANAGE J, V52, P822	49	0.22
KIM L, 1998, ORGAN SCI, V9, P506	47	0.21
GRANT RM, 1996, STRATEGIC MANAGE J, V17, P109	46	0.21
PODSAKOFF PM, 2003, J APPL PSYCHOL, V88, P879	45	0.20
COCKBURN IM, 1998, J IND ECON, V46, P157	44	0.20
EISENHARDT KM, 2000, STRATEGIC MANAGE J, V21, P1105	44	0.20
HUBER GP, 1991, ORGAN SCI, V2, P88	43	0.19
NONAKA I., 1995, KNOWLEDGE CREATING C	43	0.19
BARNEY J, 1991, J MANAGE, V17, P99	42	0.19
NELSON R. R., 1982, EVOLUTIONARY THEORY	40	0.18
COHEN WM, 1994, MANAGE SCI, V40, P227	39	0.17
LENOX M, 2004, STRATEGIC MANAGE J, V25, P331	38	0.17
FOSFURI A, 2008, OMEGA-INT J MANAGE S, V36, P173	37	0.17
FORNELL C, 1981, J MARKETING RES, V18, P39	36	0.16
STOCK G.N., 2001, J HIGH TECHNOLOGY MA, V12, P77	35	0.16
LAURSEN K, 2006, STRATEGIC MANAGE J, V27, P131	34	0.15
VEUGELERS R, 1997, RES POLICY, V26, P303	34	0.15
CHESBROUGH H. W., 2003, OPEN INNOVATION NEW	32	0.14
LEVINTHAL DA, 1993, STRATEGIC MANAGE J, V14, P95	32	0.14
POWELL WW, 1996, ADMIN SCI QUART, V41, P116	32	0.14
ESCRIBANO A, 2009, RES POLICY, V38, P96	31	0.14
GUPTA AK, 2000, STRATEGIC MANAGE J, V21, P473	30	0.13
NONAKA I, 1994, ORGAN SCI, V5, P14	29	0.13
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Total	22367	100.00

Table 23: 40 most recent years cited

Year	Count	%
2015	30	0.13
2014	110	0.49
2013	237	1.06
2012	395	1.77
2011	589	2.63
2010	742	3.32
2009	854	3.82
2008	873	3.90
2007	1035	4.63
2006	1153	5.15
2005	1162	5.20
2004	1071	4.79
2003	1160	5.19
2002	1152	5.15
2001	1213	5.42
2000	1020	4.56
1999	869	3.89
1998	1054	4.71
1997	655	2.93
1996	916	4.10
1995	622	2.78
1994	612	2.74
1993	430	1.92
1992	417	1.86
1991	528	2.36
1990	633	2.83
1989	348	1.56
1988	312	1.39
1987	141	0.63
1986	236	1.06
1985	155	0.69
1984	170	0.76
1983	103	0.46
1982	157	0.70
1981	136	0.61
1980	88	0.39
1979	82	0.37
1978	83	0.37
1977	115	0.51
1976	42	0.19
...		
Total	22367	100.00

Note: Some references do not contain year information

Table 24: 40 most cited authors

Name	Count	%
COHEN WM	439	1.96
LANE PJ	356	1.59
ZAHRA SA	301	1.35
JANSEN JJP	117	0.52
TSAI WP	117	0.52
SZULANSKI G	111	0.50
TEECE DJ	111	0.50
KOGUT B	104	0.46
MOWERY DC	102	0.46
GRANT RM	96	0.43
TODOROVA G	86	0.38
EISENHARDT KM	84	0.38
LICHTENTHALER U	83	0.37
VOLBERDA HW	77	0.34
DYER JH	75	0.34
VAN DEN BOSCH FAJ	73	0.33
PODSAKOFF PM	72	0.32
[ANONYMOUS]	71	0.32
MARCH JG	68	0.30
ROTHAERMEL FT	60	0.27
AHUJA G	59	0.26
CASSIMAN B	59	0.26
JAFFE AB	56	0.25
ARGOTE L	53	0.24
NELSON R. R.	53	0.24
NONAKA I.	52	0.23
GUPTA AK	51	0.23
KIM L	51	0.23
NONAKA I	51	0.23
HUBER GP	50	0.22
VEUGELERS R	49	0.22
COCKBURN IM	47	0.21
FORNELL C	47	0.21
FOSFURI A	47	0.21
BARNEY J	46	0.21
LAURSEN K	46	0.21
TUSHMAN ML	45	0.20
GULATI R	44	0.20
POWELL WW	44	0.20
CHESBROUGH H. W.	43	0.19
...		
Total	22367	100.00

Note: Some references do not contain author information

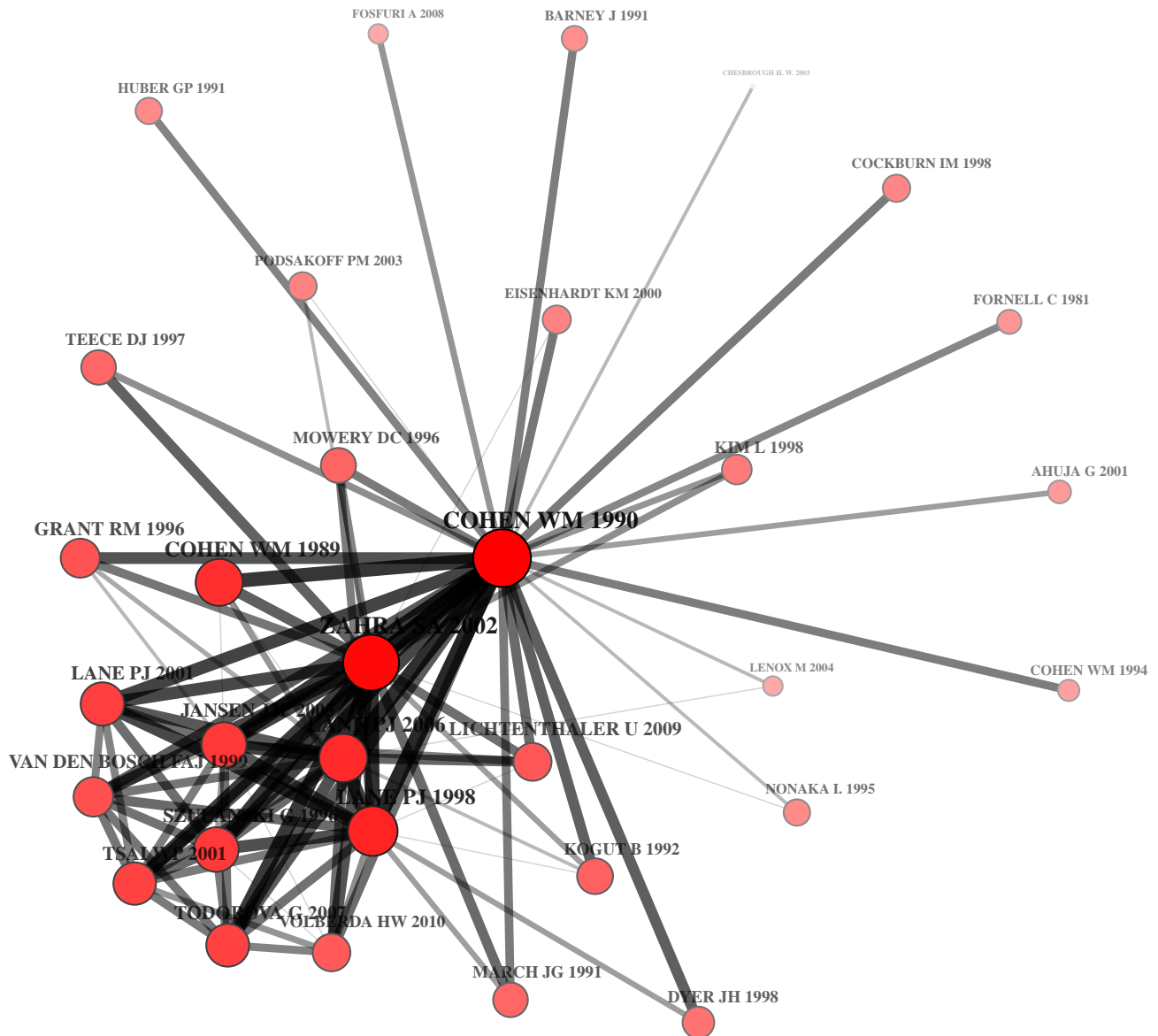


Figure 15: Cocitation network (only cocitations recurring 30 times or more shown)

## Appendices

## Appendix: All authors

List all authors for WoS data inconsistency inspection, suspects highlighted.

Abareshi, A	Ben-Menahem, SM	<b>Chang, SF</b>
Abecassis-Moedas, C	Ben-Oz, C	Chang, YY
Abreu, MA	Benford, T	Chatterji, M
Acs, ZJ	Bergeron, F	Chaudhury, A
Adams, D	Berges-Muro, L	Chen, CC
Ahlin, B	Bergh, DD	Chen, CJ
Ahlstrom, D	Bertrand, O	Chen, CLJ
Akbar, H	Bharadwaj, S	Chen, JS
Al-Dajani, H	Bharati, P	Chen, YS
Albors-Garrigos, J	Bishop, K	Cheng, DJ
Alegre, J	Bjorkman, I	Chin, WW
Alexander, A	Blind, K	Cho, SW
Alexandre, MT	Blomqvist, K	Choi, S
Allen, MW	Bodman, P	Chou, SW
Ambrosini, V	Bogers, M	Chuang, YS
Anand, J	Bolivar-Ramos, MT	Chung, MY
Andersen, J	Boyd, B	Cieslik, A
Anderson, MH	Brandon-Jones, A	Clarysse, B
Antonacopoulou, E	Brettel, M	Clausen, TH
Anwar, S	Breunig, KJ	Coccia, M
Aranguren, M	Brown, V	Cockburn, IM
Arbussa, A	Bruni, M	Coenders, G
Archontakis, F	Buckley, PJ	COHEN, WM
Arias-Aranda, D	Burcharth, ALLD	Cordery, JL
Aribi, A	Bustinza, OF	Correani, L
Ariza-Montes, JA	Cadot, O	Croteau, AM
Armbruster, H	Calero-Medina, C	Cuellar, MJ
Armstrong, DJ	Camacho, J	D'Este, P
Arnold, V	Camison, C	D'Oria, L
Augier, P	Campisi, D	D'Souza, DE
Azadegan, A	Cao, M	Dai, M
Azagra-Caro, JM	Capo-Vicedo, J	Daniel, EM
Bachor, V	Caragliu, A	Davids, M
Backmann, J	Cardenas, J	de Boer, M
Bagchi-Sen, S	Casali, GL	de Groot, HLF
Balan-Vnuk, E	Castellacci, F	de Jong, JPJ
Bao, Q	Catozzella, A	de Renzio, P
Barbosa, N	Cavusgil, ST	de Silva, A
Becker, SO	Cegarra-Navarro, JG	De-Miguel, B
Becker-Ritterspach, F	Cepeda-Carrion, G	Debrulle, J
Beckett, RC	Chalmers, DM	Deeds, DL
Belcher, SM	Chang, CC	Delmas, M
Belderbos, R	Chang, CH	Deng, XD
Bell, J	Chang, CW	Denicolai, S
Ben Mahmoud-Jouini, S	Chang, S	Di Gangi, PM



Dinger, M	Franco, C	Harris, R
Dobrzykowski, DD	Freel, M	Harvey, G
Doll, WJ	Galbraith, B	Hasan, I
Dovis, M	Gallivan, MJ	Hatfield, DE
Dreher, C	Galluch, PS	Hayton, JC
Drnovsek, M	Gao, SX	He, XM
Dupouet, O	Garcia-Morales, VJ	Heeley, MB
Durham, JB	Garcia-Vazquez, JM	Heil, S
Durisin, B	Garcia-Villaverde, PM	Henderson, RM
Dutta, S	Garofalo, G	Hernandez-Perlines, F
Duysters, G	Gauch, S	Hervas-Oliver, JL
Easterby-Smith, M	Gebauer, H	Hidalgo, A
Ebers, M	Gellynck, X	Hisrich, RD
Egbetokun, A	George, G	Hobday, M
Egger, PH	Ghimire, A	Hoegl, M
Eiriz, V	Gilsing, V	Hoffmann, VH
El Sawy, OA	<b>Gilsing, VA</b>	Hollensen, S
Eldridge, S	Giovacchini, E	Hong, PC
Elmawazini, K	Girma, S	Hotho, JJ
Elola, A	Giuliani, E	Hsu, CC
Engelen, A	Glas, A	Hu, DC
Enkel, E	Gnyawali, DR	Hu, Q
Eren, M	Gomez, J	Hua, ZS
Escribano, A	Gong, YP	Huang, F
Exposito-Langa, M	Gopinath, M	Huang, IC
Fabrizio, KR	Gosain, S	Huang, KF
Falvey, R	Graca, M	Hubler, M
Feeny, S	Gray, C	Hughes, B
Fei, WC	Greenaway, D	Hughes, M
Feng, YQ	Greve, GI	Hughes, P
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Fernandez-de-Lucio I	Griffith, R	Huo, JG
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Fernandez-Mesa, A	Grover, V	Hurmelinna-Laukkanen, P
Fernhaber, SA	Grunfeld, LA	Hussinger, K
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Filatotchev, I	Gutierrez-Gracia, A	Ismail, HS
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Flatten, T	Hagemeister, M	Jacobson, D
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Flor, ML	Hall, KD	Jansen, JJP
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Francalanci, C	Haro-Dominguez, MD	Jimenez-Castillo, D

Jimenez-Jimenez, D	Lee, CY	Lubatkin, M
Johnston, DA	Lee, DS	Luo, JL
Johnston, WJ	Lee, ES	Lyles, MA
Jones, O	Lee, H	Maes, J
Jordaan, JA	Lee, J	Makinen, SJ
Joshi, K	Lee, JS	Malhotra, A
Jung-Erceg, P	Lee, K	Malipiero, A
Kaiser, U	Lee, KC	Mancusi, ML
Kallio, A	Lee, SC	Mancuso, P
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Kaulich, F	Leuschner, R	Marabelli, M
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Khwaja, AI	Li, D	Martinez, H
Kim, B	Li, HY	Martinez-Caro, E
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Kube, H	Lin, CH	Mian, A
Kulkarni, SS	Lin, CY	Migueluez, E
Kuss, M	Lin, HL	Miller, K
Kuss, MJ	Lin, KH	Minbaeva, D
Kwee, Z	Lin, MJJ	Minbaeva, DB
Lai, MY	Lin, YH	Moffett, S
Lan, PN	Liu, CY	Moilanen, M
Lane, PJ	Liu, HF	Mol, MJ
Larraneta, B	Liu, LN	Molina, LM
Lau, AKW	Liu, XF	Molina, VB
Lazaric, N	Llorens-Montes, FJ	Molina-Morales, FX
Le, T	Lo, W	Molla, A
Leahy, D	Longhi, C	Montagna, C
Leal-Millan, A	Lopez, S	Montealegre, R
Leal-Millan, AG	Love, JH	Montresor, S
Leal-Rodriguez, AL	Lu, IY	Morabito, V

Moreno, AR	Park, JG	Ronchi, S
Moreno, R	Park, JH	Roper, S
Moreno-Garcia, J	Parra-Requena, G	Rose, EL
Morgan, RE	Pastorino, N	Rosell-Martinez, J
Moutinho, RFF	Patel, PC	Rothaermel, FT
Mukherji, N	Pathak, S	Ruiz-Moreno, A
Muller-Seitz, G	Patterson, W	Ruiz-Ortega, MJ
Munari, F	Patton, D	Saadi, S
Murovec, N	Pauwels, P	Saenz, MJ
Murray, JY	Pedersen, T	Saito, H
Nagati, H	Peeters, C	Saka-Helmhout, A
Naghavi, A	Peltola, T	Salk, JE
Najmi, M	Peng, MW	Sanchez-Perez, M
Narasimhan, O	Peng, SJ	Sanchez-Sellero, P
Nastasi, A	Perruchas, F	Saraf, N
Natera, JM	Phan, PH	Sartal, A
Natti, S	Pieniak, Z	Savin, I
Navarro, JGC	Pihkala, T	Schildt, H
Neary, JP	Pinkse, J	Schillaci, CE
Neely, A	Pittz, TG	Schleimer, SC
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Newell, S	Posen, HE	Sciascia, S
Newey, L	Powell, A	Scott, JT
Newey, LR	Prodan, I	Sels, L
Nguyen, B	Pugliesi, S	Seo, YW
Nicotra, M	Puthusserry, P	Setia, P
Nieto, M	Qi, GY	Sharifi, H
Nijkamp, P	Qian, HF	Sharkey, TW
Noblet, JP	Quevedo, P	Sharma, S
Nooteboom, B	Quintas, MA	Shoham, A
Noyons, ECM	Radojicic, Z	Shulman, AD
Nunnenkamp, P	Radovanovic, N	Siengthai, S
Olander, H	Ragu-Nathan, TS	Silberman, J
Oltra, MJ	Rajiv, S	Simon, E
Ooms, W	Ramirez, M	Skelcher, C
Ostbye, S	Ranguelov, S	Smit, MJ
Ouyang, HW	Raymond, L	Smith, HL
Paff, LA	Rebolledo, C	Sobrero, M
Pai, DC	Redding, S	Sofka, W
Pak, MS	Reid, MF	Soleimanof, S
Pandza, K	Revilla, E	Song, DW
Panfili, V	Rice, J	Song, J
Papachroni, M	Riemenschneider, CK	Song, ZH
Papalexandris, A	Ritala, P	Spencer, E
Parada, MJ	Roberts, N	Spithoven, A
Parent, R	Robertson, PL	Srivastava, MK
Parida, V	Rodriguez-Castellanos, A	St-Pierre, J
Parjanen, S	Roh, JJ	Stahl, GK
Park, BI	Roldan, JL	Stemberger, MI
Park, HJ	Romano, M	Stevens, PA

Stoica, M	Vega-Jurado, J	Yanez-Araque, B
Su, TH	Vera, D	Yang, CH
Su, ZF	Verbeke, A	Yang, HD
Sugheir, J	Verbeke, W	Yang, JJ
Suh, HJ	Verreynne, ML	Yasar, M
Sun, PYT	Vicente-Oliva, S	Yu, CM
Sun, Y	Vilkko, MK	Yu, MJ
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Suzuki, S	Volberda, HW	Zahra, SA
Sweeney, JR	von Ehrlich, M	Zang, I
Tai, SYTT	Vonderembse, MA	Zhang, C
Tan, BR	Voss, H	Zhang, KH
Tang, YK	Wales, WJ	Zhang, M
Tapia, AH	Walshe, K	Zhang, Y
Tavani, SN	Walter, A	Zhao, XD
Taylor, JE	Walter, C	Zhou, J
Techatassanasoontorn, AA	Wan, DF	Zhou, LA
Teigland, R	Wang, CF	Zhu, KX
Terjesen, S	Wang, TN	Zhuang, H
Thomas, C	Wang, WH	Zia, B
Thomas, R	Wang, WW	
Tidd, J	Wang, YQ	
Todorova, G	Wareham, J	
Tomas-Miquel, JV	Watkins, TA	
Tortoriello, M	Way, SA	
Tribo, JA	Wei, KK	
Trkman, P	Wei, YQ	
Truffer, B	Welsch, H	
Tsai, WP	Wensley, AKP	
Tsai, Y	Wiethaus, L	
<b>Tsai, YC</b>	Wincent, J	
Tseng, CY	Winkelbach, A	
Tsui, KA	Woll, K	
Tu, Q	Woo, H	
Turpin, T	Wood, E	
Tzokas, N	Worch, H	
Ulhoi, JP	Wright, M	
Unsal, HI	Wu, AQ	
Uotila, T	Wu, CC	
Vaara, E	Wu, CS	
Valdaliso, J	Wu, JY	
Van den Bosch, FAJ	Wu, LY	
van den Oord, A	Wu, XB	
Van Haverbeke, W	Wu, YJ	
van Raaij, EM	Xia, TJ	
Van Reenen, J	Xie, XM	
Vandenbempt, K	Xiong, GY	
Vargas, P	Xu, H	
Vasudeva, G	Xu, K	
Vazquez, XH	Xue, YJ	

## Appendix: All parsed institutions

List all parsed institutions for WoS data inconsistency inspection, suspects highlighted.

Aachen Univ RWTH	Cleveland State Univ
Aalto Univ	Coll Carlo Alberto
Aarhus Univ	Colorado Sch Mines
Acad Gen Mil	Colorado State Univ
Aix Marseille Univ	Columbia Univ
Arizona State Univ	Commerce Dev Res Inst
Asian Inst Technol	Commities
Aston Univ	Concordia Univ
Athens Univ Econ & Business	Consumer & Sensory Res Inst
Australian Natl Univ	Copenhagen Business Sch
Avison Consulting Ltd	Copenhagen Sch Econ & Business Adm
BI Norwegian Business Sch	Cornell Univ
Babson Coll	Ctr European Econ Res
Ball State Univ	Ctr Univ Def
Bangkok Univ	Curtin Univ
Baylor Univ	Dartmouth Coll
Belgian Sci Policy	Delft Univ Technol
Bentley Univ	Depaul Univ
Birkbeck	Dept Strategy & Management
Bloomsburg Univ Penn	Dublin City Univ
Bocconi Univ	Duke Univ
Boise State Univ	E Carolina Univ
Boston Consulting Grp Inc	E China Univ Sci & Technol
Bournemouth Univ	EADA Business Sch
Bryant Univ	EADA Business Sch Barcelona
Butler Univ	EIM Business & Policy Res
CESifo	ESADE
CNRS	ESADE Business Sch
CSIC UPV	ETH
CUNEF Business Sch	Eawag Swiss Fed Inst Aquat Sci & Technol
Cardiff Univ	Ecole Management Lyon
Carnegie Mellon Univ	Ecole Polytech Fed Lausanne
Case Western Reserve Univ	Ecorys NEI
Catholic Univ Leuven	Edinburgh Napier Univ
Catholic Univ Louvain	Eindhoven Univ Technol
Catholic Univ Milan	Emory Univ
China Europe Int Business Sch	Erasmus Univ
Chinese Univ Hong Kong	Escuela Super Politecn Litoral ESPOL
Chonnam Natl Univ	European Commiss
Chungchou Inst Technol	European Univ Inst
City Univ Hong Kong	Ewha Womans Univ
City Univ London	Fed Reserve Syst
Clarkson Univ	Feng Chia Univ
Clemson Univ	Florida State Univ

Fordham Univ	Karolinska Inst
Fraunhofer Inst Open Commun Syst	Katholieke Univ Leuven
Fraunhofer Inst Syst & Innovat Res	Kazakhstan Inst Management Econ & Strateg
Free Univ Amsterdam	Res KIM
George Mason Univ	Kedge Business Sch
Georgia Inst Technol	Kiel Inst World Econ
Georgia State Univ	King Abdulaziz Univ
Griffith Univ	Korea Univ
Grp ESC	Kunsan Natl Univ
HEC Montreal	Kyoto Univ
Hanken Sch Econ	Kyung Hee Univ
Hankuk Univ Foreign Studies	LUT Lahti Sch Innovat
Harbin Inst Technol	Lappeenranta Univ Technol
Harvard Univ	Leeds Metropolitan Univ
Hasselt Univ	Lehigh Univ
Heidelberg Univ	Leibniz Univ Hannover
Henderson State Univ	Leiden Univ
Hong Kong Univ Sci & Technol	Lulea Univ Technol
Hunan Univ	MIT
Hyundai Res Inst	Maastricht Univ
I Shou Univ	Manchester Business Sch
ICD Inst Int Commerce & Dev	Manchester Metropolitan Univ
ICN Business Sch	Max Planck Inst Econ
IE Business Sch	McMaster Univ
<b>IE Business Sch Madrid</b>	Melbourne Business Sch
IESE Business Sch	Michigan Technol Univ
IESEG Sch Management LEM CNRS	Monash Univ
INSCOPE Res Innovat	Murdoch Univ
INSEAD	N Dakota State Univ
<b>INSEAD Euro Asia Ctr</b>	NBER
ISC Sch Management	NE Illinois Univ
IULM Univ	NUPI Norwegian Inst Int Affairs
Ifo	Nanjing Univ
Illinois State Univ	Nankai Univ
Indiana Univ	Natl Bank Poland
<b>Indiana Univ Indianapolis</b>	Natl Cent Univ
Inha Univ	Natl Cheng Kung Univ
Inst Econ Res	Natl Chengchi Univ
Inst Fiscal Studies	Natl Chung Hsing Univ
Inst Mfg	Natl Ctr Technol Management
Inst Study Lab IZA	Natl Def Univ
Intellectual Property Off Republ Serbia	Natl IT Ind Promot Agcy
Iowa State Univ	Natl Inst Econ & Social Res
Istanbul Kultur Univ	Natl Inst Sci & Technol Policy NISTEP
James Madison Univ	Natl Kaosiung First Univ Sci & Technol
Johannes Kepler Univ Linz	Natl Sun Yat Sen Univ
Johns Hopkins Univ	Natl Taichung Univ Sci & Technol
Kainan Univ	Natl Taipei Univ
Kao Yuan Univ	Natl Taiwan Univ
Karlsruhe Inst Technol	<b>Natl Taiwan Univ Sci &amp; Technol</b>

Natl Tsing Hua Univ	Simon Fraser Univ
Natl Univ Kaohsiung	So Taiwan Univ Technol
Natl Univ Singapore	St Petersburg State Univ
Natl Yunlin Univ Sci & Technol	State Bank Vietnam
New Mexico State Univ	Stockholm Sch Econ
Nordland Res Inst	Stockholm Univ
Northwestern Univ	Sungkyunkwan Univ
Norwegian Inst Int Affairs NUPI	Swedish Sch Econ & Business Adm
Norwegian Sch Econ & Business Adm	Swedish Sch Econ Hanken
Oakland Univ	Swiss Fed Inst Technol
Obihiro Univ Agr & Vet Med	<b>Swiss Fed Inst Technol Zurich ETHZ</b>
Ohio State Univ	Swiss Polytech Inst ETH
Open Univ	TU Dortmund
Oregon State Univ	Taipei Med Univ
Orkestra Basque Inst Competitiveness	Tamkang Univ
Oslo & Akershus Univ Coll	Tampere Univ Technol
Parco Sci & Tecnol Sicilia	Tech Univ Berlin
Peking Univ	Technion Israel Inst Technol
Penn State Berks	Tel Aviv Univ
Penn State Univ	Tele Univ
Politecn Milan	Telenor Grp
Polytech Inst Porto	Temple Univ
Polytech Univ Cartagena	Texas A&M Univ
Polytech Univ Valencia UPV	Thunderbird Sch Global Management
Pompeu Fabra Univ	Tilburg Univ
Queens Univ	Tinbergen Inst
<b>Queens Univ Belfast</b>	Tsinghua Univ
Queensland Univ Technol	Tunghai Univ
RMIT Univ	UCL
RSM Erasmus Univ	UNIV PENN
Radboud Univ Nijmegen	UNU
Reinvent Network	<b>UNU MERIT</b>
Rhein Westfal TH Aachen	Ulsan Natl Inst Sci & Technol
Rice Univ	United Nations Ind Dev Org
Roanoke Coll	United Nations Univ
Rochester Inst Technol	Univ Adelaide
Rowan Univ	Univ Agder
Rutgers State Univ	Univ Alabama Birmingham
S China Univ Technol	Univ Alberta
SDA Bocconi Sch Management	Univ Almeria
SKEMA Business Sch	Univ Amsterdam
SUNY Buffalo	Univ Angers
Seoul Natl Univ	Univ Antwerp
Seoul Univ Venture & Informat	Univ Arkansas
Shandong Jiaotong Univ	Univ Barcelona
Shanghai Univ	Univ Basque Country
Shanxi Univ	<b>Univ Basque Country UPV EHU</b>
Sharif Univ Technol	Univ Beira Interior
Shu Te Univ	Univ Belgrade
Sichuan Univ	Univ Bern

Univ Birmingham	Univ Lancaster
Univ Bocconi	Univ Lausanne
Univ Bologna	Univ Leeds
Univ Bordeaux	Univ Leicester
Univ Brighton	Univ Leon
Univ British Columbia	Univ Leuven
Univ Calgary	Univ Libre Brussels
Univ Calif Berkeley	Univ Libre Bruxelles
Univ Calif Los Angeles	Univ Liverpool
Univ Calif San Diego	Univ Ljubljana
Univ Cambridge	Univ London Imperial Coll Sci Technol & Med
Univ Carlos III Madrid	Univ London London Sch Econ & Polit Sci
Univ Castilla La Mancha	Univ Loughborough
Univ Catania	Univ Loyola Andalucia
Univ Catolica Portuguesa	Univ Maastricht
Univ Cattolica Sacro Cuore	Univ Manchester
Univ Cent Florida	Univ Maryland
Univ Coll Dublin	Univ Massachusetts
Univ Cologne	Univ Melbourne
Univ Colorado	Univ Michigan
Univ Complutense	Univ Minho
<b>Univ Complutense Madrid</b>	Univ Minnesota
Univ Connecticut	Univ Missouri
Univ Denver	<b>Univ Missouri St Louis</b>
Univ Dundee	Univ Munich
Univ Durham	Univ Murcia
Univ E Anglia	Univ N Carolina
Univ Essex	Univ N Texas
Univ Exeter	Univ New England
Univ Flensburg	Univ New Hampshire
Univ Georgia	Univ Nice Sophia Antipolis
Univ Ghent	Univ Nottingham
Univ Girona	Univ Orebro
Univ Glasgow	Univ Oslo
Univ Gottingen	Univ Otago
Univ Granada	Univ Ottawa
Univ Groningen	Univ Oulu
Univ Haifa	Univ Oxford
Univ Hamburg	Univ Pablo de Olavide
Univ Hohenheim	Univ Paris 02
Univ Houston	Univ Paul Verlaine
Univ Illinois	Univ Pavia
Univ Ind Santander	Univ Pisa
Univ Int Business & Econ	Univ Plymouth
Univ Jaume I	Univ Politecn Cartagena
Univ Jaume I Castello	Univ Politecn Madrid
Univ Jena	Univ Politecn Valencia
Univ Kiel	Univ Poltecn Madrid
Univ L Bocconi	Univ Porto
Univ La Rioja	



Univ Quebec Trois Rivieres	WHU
Univ Queensland	Washburn Univ
Univ Roma Tor Vergata	Washington Univ
Univ Rome La Sapienza	Wenzhou Univ
Univ S Australia	Western Michigan Univ
Univ S Carolina Upstate	World Bank
Univ Salamanca	Xi An Jiao Tong Univ
Univ Salerno	Xiamen Univ
Univ Sci & Technol Beijing	Xian Jiaotong Univ
Univ Sci & Technol China	Yonsei Univ
Univ Seville	York Univ
Univ Sherbrooke	ZEW Ctr European Econ Res
Univ So Calif	Zaragoza Logist Ctr
Univ So Denmark	Zeppelin Univ
Univ Southern Denmark	Zhejiang Univ
Univ Strasbourg	eZ Syst
Univ Strathclyde	
Univ Stuttgart	
Univ Sunshine Coast	
Univ Surrey	
Univ Sussex	
Univ Tasmania	
Univ Tennessee	
Univ Texas Arlington	
Univ Texas Dallas	
Univ Toledo	
Univ Toronto	
Univ Tromso	
Univ Tuscia	
Univ Ulster	
Univ Vaasa	
Univ Valencia	
Univ Vienna	
Univ Vigo	
Univ Waikato	
Univ Warsaw	
Univ Warwick	
Univ Waterloo	
Univ Western Sydney	
Univ Wisconsin	
<b>Univ Wisconsin Super</b>	
Univ York	
Univ Zaragoza	
Ural Fed Univ	
Utah State Univ	
Vienna Univ Econ & Business	
Virginia Tech	
Vlerick Business Sch	
Vlerick Leuven Gent Management Sch	
Vrije Univ Amsterdam	

## Appendix: All parsed countries

List all parsed countries for WoS data inconsistency inspection.

A 19104	IL 61820 USA	NY 13699 USA
AK USA	IN 46202 USA	NY 14260 USA
AL 35294 USA	IN 46204 USA	NY 14623 USA
AR 71999 USA	IN 46208 USA	NY 14853 USA
AR 72701 USA	IN 46634 USA	Netherlands
AZ 85069 USA	IN 47306 USA	New Zealand
AZ 85287 USA	IN 47405 USA	Nigeria
AZ USA	Iran	North Ireland
Australia	Ireland	Norway
Austria	Israel	OH 43210 USA
Belgium	Italy	OH 43606 USA
CA 90089 USA	Japan	OH 44106 USA
CA 90095 USA	KS 66621 USA	OH 44115 USA
CA 92093 USA	Kazakhstan	OH USA
CA 94720 USA	MA 02125 USA	OR 97331 USA
CO 80208 USA	MA 02138 USA	PA 15213 USA
CO 80309 USA	MA 02139 USA	PA 16802 USA
CO 80401 USA	MA 02452 USA	PA 17815 USA
CO 80523 USA	MA 02457 USA	PA 18015 USA
CT USA	MA USA	PA 19122 USA
Canada	MD 20742 USA	PA 19610 USA
Colombia	MD 21202 USA	PA USA
DC 20433 USA	MI 48109 USA	Peoples R China
DC 20551 USA	MI 48309 USA	Poland
Denmark	MI 49008 USA	Portugal
Ecuador	MI 49931 USA	RI 02917 USA
England	MN 55455 USA	Russia
FL 32306 USA	MO 63121 USA	SC 29306 USA
FL 32816 USA	MO 63130 USA	SC 29634 USA
Finland	MO USA	Saudi Arabia
France	NC 27499 USA	Scotland
GA 30302 USA	NC 27706 USA	Serbia
GA 30303 USA	NC 27708 USA	Singapore
GA 30308 USA	NC 27858 USA	Slovenia
GA 30322 USA	NC USA	South Korea
GA 30602 USA	ND 58108 USA	Spain
Germany	NH 03755 USA	Sweden
Greece	NH 03824 USA	Switzerland
IA 50011 USA	NH USA	TN USA
IA USA	NJ 08855 USA	TX 75230 USA
ID 83725 USA	NJ USA	TX 76019 USA
IL 60208 USA	NM 88003 USA	TX 76203 USA
IL 60604 USA	NY 10023 USA	TX 76798 USA
IL 60625 USA	NY 10027 USA	TX 77005 USA
IL 61790 USA	NY 10458 USA	TX 77204 USA

TX 77251 USA  
TX USA  
Taiwan  
Thailand  
Turkey  
UT 84322 USA  
VA 22201 USA  
VA 22801 USA  
VA 24061 USA  
VA 24153 USA  
VA USA  
Vietnam  
WI 53706 USA  
WI USA  
Wales

## Appendix: All sources

Academy of management journal  
Academy of management review  
Administrative science quarterly  
African journal of business management  
Agribusiness  
American economic journal-economic policy  
Annals of regional science  
Applied economics  
Applied economics letters  
Asia pacific business review  
Asia pacific journal of management  
Asian business & management  
Asian journal of technology innovation  
British journal of management  
Business & society  
Business history  
California management review  
Canadian journal of economics-revue canadienne d economique  
China economic review  
Chinese management studies  
Creativity and innovation management  
Decision support systems  
Eastern european economics  
Economic inquiry  
Economic modelling  
Economics letters  
Emerging markets finance and trade  
Emj-engineering management journal  
Empirical economics  
Entrepreneurship and regional development  
Entrepreneurship research journal  
Entrepreneurship-theory and practice  
Environment and planning a  
European economic review  
European journal of information systems  
European journal of operational research  
European management journal  
European management review  
European planning studies  
European urban and regional studies  
Global economic review  
Ids bulletin-institute of development studies  
Ieee transactions on engineering management  
Industrial and corporate change  
Industrial management & data systems  
Industrial marketing management  
Industry and innovation

Information & management  
 Information and organization  
 Information research-an international electronic journal  
 Information systems frontiers  
 Information systems journal  
 Information technology & management  
 Information technology & people  
 International business review  
 International journal of industrial organization  
 International journal of logistics management  
 International journal of logistics-research and applications  
 International journal of management reviews  
 International journal of operations & production management  
 International journal of production economics  
 International journal of production research  
 International journal of project management  
 International journal of technology management  
 International marketing review  
 International review of economics & finance  
 International small business journal  
 Investigacion economica  
 Journal for east european management studies  
 Journal of business & industrial marketing  
 Journal of business research  
 Journal of business venturing  
 Journal of computer information systems  
 Journal of construction engineering and management-asce  
 Journal of development economics  
 Journal of economic dynamics & control  
 Journal of economics-zeitschrift fur nationalokonomie  
 Journal of engineering and technology management  
 Journal of evolutionary economics  
 Journal of family business strategy  
 Journal of global information management  
 Journal of industrial economics  
 Journal of information science  
 Journal of information technology  
 Journal of informetrics  
 Journal of institutional and theoretical economics-zeitschrift fur die  
 Journal of international business studies  
 Journal of international development  
 Journal of international economics  
 Journal of international trade & economic development  
 Journal of knowledge management  
 Journal of korea trade  
 Journal of management  
 Journal of management & organization  
 Journal of management studies  
 Journal of marketing  
 Journal of operations management

Journal of organizational computing and electronic commerce  
Journal of product innovation management  
Journal of regional science  
Journal of small business management  
Journal of supply chain management  
Journal of technology transfer  
Journal of world business  
Knowledge management research & practice  
Long range planning  
Management decision  
Management international review  
Management learning  
Management science  
Manchester school  
Marketing science  
Mis quarterly  
Omega-international journal of management science  
Online information review  
Open economies review  
Organization science  
Organization studies  
Oxford bulletin of economics and statistics  
Oxford economic papers-new series  
Papers in regional science  
Personnel psychology  
Public management review  
R & d management  
Regional studies  
Research policy  
Review of development economics  
Review of financial studies  
Review of network economics  
Scandinavian journal of economics  
Scandinavian journal of management  
Science technology and society  
Scientometrics  
Scottish journal of political economy  
Service industries journal  
Small business economics  
Strategic entrepreneurship journal  
Strategic management journal  
Strategic organization  
Sustainability  
Technological forecasting and social change  
Technology analysis & strategic management  
Technovation  
Telecommunications policy  
Tourism management  
Transformations in business & economics  
Urban studies

World development

World economy

Zbornik radova ekonomskog fakulteta u rijeci-proceedings of rijeka

## Appendix: All source WoS categories

Agricultural economics & policy  
Area studies  
Business  
Business, finance  
Communication  
Computer science, artificial intelligence  
Computer science, information systems  
Computer science, interdisciplinary applications  
Computer science, theory & methods  
Construction & building technology  
Economics  
Engineering, civil  
Engineering, industrial  
Engineering, manufacturing  
Engineering, multidisciplinary  
Environmental sciences  
Environmental studies  
Food science & technology  
Geography  
History of social sciences  
Hospitality, leisure, sport & tourism  
Information science & library science  
International relations  
Management  
Multidisciplinary sciences  
Operations research & management science  
Planning & development  
Political science  
Psychology, applied  
Public administration  
Social sciences, mathematical methods  
Statistics & probability  
Telecommunications  
Urban studies



## Appendix: All source research areas

Agriculture  
Area studies  
Business & economics  
Communication  
Computer science  
Construction & building technology  
Engineering  
Environmental sciences & ecology  
Food science & technology  
Geography  
Government & law  
Information science & library science  
International relations  
Mathematical methods in social sciences  
Mathematics  
Operations research & management science  
Psychology  
Public administration  
Science & technology - other topics  
Social sciences - other topics  
Telecommunications  
Urban studies

## Appendix: All author keywords

List all author keywords for WoS data inconsistency inspection, suspects highlighted.

Absorptive capability (ac)	Brics
Absorptive capacity	Broadband technology
Absorptive capacity of r&d	Business culture
Absorptive capacity routines	Business dynamics
Acquisitions	Business intelligence systems
Acquisitions and mergers	Business owner
Acquisitions.	Business performance
Adoption	Business process management
Agent-based modeling	Business strategy
Agglomeration externalities	Business support
Agile product innovation	Business-to-business relationships
Agility	Buyer-supplier relationships
Alliance	Buyersupplier relationships
Alliance forms	Canada
Alliance network	Capabilities
Alliance portfolio	Capability
Alliance portfolios	Capability transfer
Alliance stability	Case study analysis
Alliances	Case study method
Ambidexterity	Central and eastern europe
Appropriability	Cfa
Appropriability regime	Change agents
Appropriation instruments	Change management
Assessment instrument	Chemical industry
Asus	China
Attention-based view	Chinese firms
Australia	Choreography of congregating
Autonomy	Citation network analysis
Aviation industry	Citations
B2b marketing	Cluster
Backward and forward linkages	Clusters
Barvoys system	Co-patenting
Basic research	Coal cleaning
Benefits	Coastal regions of east china
Bibliometric mapping	Coevolution
Bibliometrics	Cognitive distance
Biopharmaceutical firms	Collaboration
Biotechnology	Combinative capabilities
Boards	Communication chain of consulting knowl-
Boundaries	edge
Boundary management	Community
Boundary spanners	Community innovation survey
Boundary-spanning	Community management
Breadth	Competition

**Competition policy**  
 Competitive advantage  
**Competitive advantages**  
 Complementarities  
 Complementarity  
 Complex knowledge  
 Computer industry  
 Configuration approaches  
 Congregating  
 Consulting knowledge  
 Context awareness  
 Corporate culture  
 Corporate entrepreneurship  
 Corporate restructuring  
 Corporate venture capital  
 Cost-reducing r&d  
 Counter-knowledge  
 Cross-border acquisitions  
 Cross-cultural  
**Cross-cultural study**  
 Cross-industry innovation  
 Cross-level interactions  
 Cultural barriers  
 Cultural differences  
 Cultural distance  
 Curvilinearity  
 Customer relationship capability  
 Customer relationship management  
 Customer-oriented selling  
 Data integration  
 Decade award  
 Decision making  
 Decision quality  
 Decision support systems  
 Decision-making  
 Delphi method  
 Depth  
 Detracted regions  
 Developing countries  
 Diffusion  
 Divestiture  
 Domestic technology purchase  
 Duration analysis  
 Duration of internationalization  
 Dutch state mines  
 Dynamic capabilities  
 Dynamic capacities  
 Dynamic competences  
 Dynamic noncooperative feedback game  
 E-commerce risk  
 E-purchasing tools  
 E22  
 E44  
 Earliness of internationalization  
 Economic growth  
**Economic growth and development**  
 Economic impact  
 Efficiency  
 Electricity utilities  
 Emergence  
 Emerging economies  
 Emerging economy  
 Emerging market  
 Empirical research  
 Empirical study  
 Endogenous growth  
 Engineering work  
 Enterprise resource planning (erp)  
 Enterprise systems  
 Entrepreneur networks  
 Entrepreneurial firms  
 Entrepreneurial orientation  
 Entrepreneurship  
 Entry  
 Environment  
**Environmental competitiveness**  
**Environmental complexity**  
**Environmental dynamism**  
**Environmental management**  
**Environmental performance**  
**Environmental strategy**  
**Environmental turbulence**  
**Environmental uncertainty**  
 Equity foreign portfolio investment  
 Erp assimilation  
 Europe  
**European union new member states**  
 Expectations  
 Experiential learning  
 Experimentation  
 Exploitation  
 Exploitative learning  
 Exploration  
**Exploration and exploitation**  
 Exploratory  
**Exploratory innovation**  
 Export  
**Export market location**  
 External knowledge  
**External knowledge flows**

External knowledge inflows  
 External knowledge search  
 External networks  
 Extra-industry r&d  
 F14  
 F21  
 Fairness of rewards  
 Family firms  
 Fdi  
 Fdi spillovers  
 Fdi-linked horizontal and vertical linkages  
 Feedback loops in the absorptive process  
 Financial development  
 Financial performance  
 Firm behaviour  
 Firm financial performance  
 Firm innovativeness  
 Firm knowledge base  
 Firm performance  
 Firm strategy  
 Fixed effect pooled regression  
 Flexibility-oriented hrm systems  
 Foreign aid  
 Foreign direct investment  
 Foreign direct investment (fdi)  
 Foreign technology  
 Foreign technology import  
 Fragile states  
 Franchising  
 Fsqa  
 Functional strategies  
 G21  
 Gatekeeper  
 Gatekeepers  
 Geographical distance  
 Global manufacturing network  
 Global sourcing of business services  
 Global supply chain  
 Gmn  
 Green absorptive capacity  
 Green dynamic capacities' green service innovation  
 Green exploitation learning  
 Green exploration learning  
 Green incremental innovation  
 Green innovation  
 Green logistics  
 Green organizational ambidexterity  
 Green process innovation  
 Green radical innovation  
 Green shared vision  
 Green subsidies  
 Greenfield investment  
 Growth  
 Headquarters-subsidiary relationship  
 Headquarters-subsidiary roles and relations  
 Healthcare  
 Healthcare insurance company  
 High tech  
 High technology ventures  
 High-tech industries  
 High-tech smes organisational performance  
 High-technology clusters  
 High-technology markets  
 High-technology sectors  
 Hospital performance  
 Hotels  
 Hrm  
 Hrm practices  
 Hubs and authorities  
 Human capital  
 Human resource  
 Human resource management (hrm)  
 Hydrocyclone  
 Ict tools  
 Imitation  
 Imitators  
 Implementation failure  
 Importing  
 Imports  
 Improvement  
 In-house r&d  
 Income inequality  
 Incremental innovation  
 Incubation  
 Individual level  
 Indonesia  
 Industrial cluster  
 Industrial clusters  
 Industrial district  
 Industrial districts  
 Industrial policy  
 Industrial research institutes  
 Industry-science linkages  
 Information and communications technology  
 Information dissemination  
 Information processing theory  
 Information provision  
 Information sharing  
 Information system innovation

Information systems	Intuitive problem solving
Information systems assimilation	Inventor mobility
Information systems capabilities	Inventor productivity
Information technology	Is implementation
Infrastructure development	Is integration
Initial public offering value	Is organizational risk
Innovation	Is risk assessment
Innovation capability	It assimilation
Innovation community	It capability
Innovation cooperation	It enabled work
Innovation network	It infrastructure
Innovation performance	It project management
Innovation policy	It resources
Innovation process management	It use
Innovation surveys	It value
Innovations	It-enabled capability
Innovative capability	Italian production system
Innovators	Japan
Institutional change	Job autonomy
Institutional influences	Joint ventures
Institutional theory	Knowledge gatekeepers
Intellectual capital	Knowledge
Inter-firm alliances	Knowledge absorptive capacity
Inter-firm cooperation	Knowledge acquisition
Inter-firm governance	Knowledge acquisition and assimilation
Interaction	Knowledge application
Interdependent tasks	Knowledge assets
Intermediary	Knowledge assimilation
Internal communication	Knowledge capture
Internal r&d	Knowledge creation
International b2b sales	Knowledge creation capacity
International collaborative formations	Knowledge dissemination
International investment	Knowledge diversity
International joint ventures	Knowledge economy
International linkages	Knowledge environment
International linkages to development	Knowledge flows and stocks
International logistics service providers (ilsp)	Knowledge gatekeepers
International performance	Knowledge input
International spillovers	Knowledge manaciement
International venturing	Knowledge management
Internationalization	Knowledge management practice
Interorganizational information systems	Knowledge processes
Interorganizational learning	Knowledge production function
Interorganizational network	Knowledge protection
Interorganizational new product development systems	Knowledge sharing
Interorganizational relationship	Knowledge sources
Interorganizational relationships	Knowledge sourcing strategy
Interpartner resource alignment	Knowledge spillover
Intra-industry spillovers	Knowledge spillovers
	Knowledge tacitness

Knowledge transfer	Marketing-finance interface
Knowledge transfer effectiveness	Mass customization capability
Knowledge transfer performance	Mathematical modeling
Knowledge transformation and exploitation	Mediation effect
Knowledge worker performance	Medium-technology sectors
Knowledge-based theory	Mergers and acquisitions
Knowledge-based view	Micro- and macrocoevolution
Knowledge-intensive business services (kibs)	Micro-macro level interactions
Knowledge-intensive industries	Microdata
Knowledge-sharing	Microfoundations
Korea	Microfoundations of absorptive capacity
Labor-managed firm	Middle managers
Large firms	Mnc organizational mechanisms
Latecomer absorptive capacity	Modeling
Latecomer firms	Moderated mediation
Latent moderated structural equations	Moderated multiple regression
Leadership	Moderating effect
Learning	Moderator analysis
Learning advantages of newness	Motivation
Learning mechanism	Multi-firm
Learning organizations	Multi-item measurement scales
Learning process	Multilevel logit models
Learning processes	Multimedia industrial complex
Licensing	Multinational companies
Lisrel	Multinational corporations (mncs) and enter- prises (mnes)
Listed companies	Multinational enterprises
Literature review	Multinational firms
Lmt industries	Multiple analytical levels
Local linkages	Municipal wireless network
Loess washing system	National culture
Long-run growth	National systems of innovation
Longitudinal case study	Network analysis
Low-cost airlines	Network embeddednes
Low-technology sectors	Network orchestration
M & as	Network theory
Main path analysis	Network-based learning
Main research stream	Networking
Management innovation	Networks
Managerial attention	New product development
Managerial knowledge	New product market performance
Managerial practices	New technology firms
Managerial ties	Non-linearity of absorptive capacity
Manufactured exports (mx)	Non-r&d innovators
Manufacturing flexibility	O30
Manufacturing industries	O31
Market knowledge	O32
Market responsiveness	O47
Marketing capability : organizational learn- ing	Offshoring
Marketing strategy	Oligarch competition

Oligopoly	Politics
Open innovation	Portugal
Open source	Position
Openness	Potential absorptive capacity
Operational absorptive capacity	Potential and realized absorptive capacity
Operational ambidexterity	Practice
Operations strategy	Prior knowledge
Orchestration	Private-collective communities
Organisational absorptive capacity	Procedural justice
Organisational learning	Process efficiency
<b>Organisational learning orientation</b>	Process innovation
Organisational performance	Process management
Organisational routines	Process modularity
Organization forms	Process studies
Organizational absorptive capacity	Process technologies
Organizational antecedents	Product diversification
Organizational capabilities	Product innovation
Organizational capability	Product portfolio
Organizational capital	<b>Product portfolio complexity</b>
Organizational compatibility	Productivity
Organizational culture	<b>Productivity growth</b>
Organizational decision making	<b>Productivity spillovers</b>
Organizational improvisation	Project networks
Organizational innovation	Project performance
Organizational iq	Project teams
Organizational issues	Project-oriented companies (pocs)
Organizational learning	Project-to-project
Organizational legitimacy	Properties of knowledge
Organizational mechanisms	Public
Organizational memory	<b>Public organization</b>
Organizational performance	<b>Publication analysis</b>
Organizational support	Purchase category performance
Outsourcing	R & d
Panel cointegration analysis	R&d
Panel data	<b>R&amp;d alliance</b>
Partial least squares	<b>R&amp;d autonomy</b>
Partnering	<b>R&amp;d climate</b>
Partners	<b>R&amp;d collaboration</b>
<b>Partnership</b>	<b>R&amp;d human capital</b>
Patent	<b>R&amp;d intensity</b>
<b>Patent classification</b>	<b>R&amp;d investment</b>
<b>Patents</b>	<b>R&amp;d management</b>
Patterns of technological innovation	<b>R&amp;d network</b>
Perceived usefulness	<b>R&amp;d project management</b>
Performance	<b>R&amp;d spillovers</b>
<b>Performance feedback</b>	<b>R&amp;d substitution</b>
Peripheral regions	<b>R&amp;d teams</b>
Pharmaceutical and biotechnology	Radical innovation
Platform of knowledge	Realised absorptive capacity
Pls-sem	Realized absorptive capacity

Realized absorptive capacity innovation out-	Social networks
comes	Software
Regional innovation	Software industry
Regional innovation system	Sophia antipolis
Regional innovation systems	Sophisticated technology
Relational context	South korea
Relational embeddedness	Spain
Relational empowerment	Spillover
Relational learning	Spillovers
Relationship commitment	Spin-off
Relationship learning	Stability
Relationship-specific memory	Standardisation
Relative absorptive capacity	Start-up
Relevant knowledge	State information technology departments
Research institutes	Stochastic frontier estimation
Research joint ventures	Stock of technological knowledge
Research profiling	Strategic alliances
Resilience	Strategic fit
Resource complementarity	Strategic flexibility
Resource uniqueness	Strategic innovation
Resource-based view	Strategic interaction
Resources	Strategic it alignment
Rich information	Strategic management
Rigidity	Strategic posture
Rival absorptive capacity	Strategy
Rjv	Structural equation modeling
Routines	Structural equation modelling
Scale development	Structural model
Science-to-industry technology transfer	Sub-saharan africa
Scientific absorptive capacity	Subgame perfect nash equilibrium
Scientific capabilities	Subsidiary absorptive capacity
Search strategies	Subsidiary markets
Sem	Supplier evaluation
Semiconductor industry	Supplier innovation
Service innovation	Supplier involvement
Shared competences	Supply chain
Shared mental models	Supply chain agility
Shared vision	Survey research
Simultaneous quantile regression	Survey-based research
Six sigma	Sustainable development
Size	Sustained innovation
Small firm	System dynamics
Small to medium-sized enterprises	System of innovation
Small-medium enterprises (smes)	Systematic problem solving
Sme	Systems thinking
Smes	Tacit knowledge
Social capital	Taiwan
Social entrepreneurship	Task innovation
Social innovation	Task productivity
Social media	Tax credit



Taxonomy	University research
Teamwork	University-industry (u-i) interaction
Technical capabilities	University-industry interactions
Technical it skills	University-industry linkage
Technological acquisitions	University-industry relations
Technological capability	Unlearning context
Technological change	Upgrading
Technological distance	Us
Technological distinctive competencies	Users' absorptive capacity
Technological effort	Users' performance of erp usage
Technological opportunity	Value creation
Technological skill	Variation
Technology	Venturing
Technology absorptive capacity	Vicarious learning
Technology acquisition	Vietnam
Technology centres	Virtual enterprise
Technology convergence	Web 2.0
Technology diffusion	Wi-fi
Technology gap	
Technology innovation	
Technology intermediation	
Technology policy	
Technology sourcing	
Technology spillovers	
Technology transfer	
Technology-based firms	
Territory	
Tft-lcd	
The diversity of fdi country origins	
Theory-building	
Threshold regression	
Time	
Time-based manufacturing	
Time-lagged measures	
Tobin's q	
Top management support	
Top management team	
Total factor productivity	
Total factor productivity (tfp)	
Trade	
Training	
Transactional leadership	
Transformational leadership	
Transition	
Transitional dynamics	
Transportation management	
Tromp system	
Turnaround	
Ubiquitous mobility	
Udss mds	

## Appendix: All keywords plus

List all keywords plus for WoS data inconsistency inspection, suspects highlighted.

1st evidence	Bioscience megacentres
2 faces	Biotechnology
6-sigma implementation	<b>Biotechnology firms</b>
Academic entrepreneurs	<b>Biotechnology start-ups</b>
Academic research	Blue ocean strategy
Accountability	Born-global firm
Accumulation	Boundaries
Acquisition	Boundary
<b>Acquisition experience</b>	<b>Boundary objects</b>
<b>Acquisition performance</b>	Brain-drain
<b>Acquisitions</b>	Business
Adaptation	<b>Business markets</b>
Adoption	<b>Business performance</b>
Advanced manufacturing technology	<b>Business strategy</b>
Advantage	<b>Business unit</b>
Affect economic-growth	<b>Businesses</b>
Africa	Buyer-seller relationships
Aggregate production function	Canadian biotechnology
Agility	Capabilities
Agricultural knowledge infrastructure	<b>Capabilities perspective</b>
Alliances	Capability
Allocation	<b>Capability accumulation</b>
Ambiguity	Capital goods
Anomalies	Care
Antecedents	Cash flow sensitivities
Antitrust	Catch
Applying organizational routines	Centrality
Appropriability	Centripetal forces
Architecture	Chain
Asian financial crisis	<b>Chain management</b>
Asset sales	Challenges
Assets	Charismatic leadership
Assimilation	Chemical-industry
Banking industry	China
Bargaining power	Chinese firms
Basic research	Chinese joint ventures
Basque country	Choice
Behavior	Cities
<b>Behavioral-research</b>	Cluster
<b>Behavioral-theory</b>	<b>Cluster-analysis</b>
Benefit	<b>Clusters</b>
<b>Benefits</b>	Coevolution
Bibliometric analysis	Cohesion
Big data	Cointegration

Collaboration	Countries
<b>Collaborations</b>	Country
Collaborative networks	Covariance-structures
Collective efficiency	Creation
Collective learning-processes	Creative destruction
Combinative capabilities	Creativity
Commercial banking industry	Critical success factors
Common method variance	Cultural distance
Communication	Culture
Companies	Decision-making
Compensation strategy	Decisions
Competence	Dedicated biotechnology firms
<b>Competences</b>	Deliberate
Competition	Demand
Competitive advantage	Demography
<b>Competitive advantages</b>	Design
Competitive capabilities	Descriptive capacity
Competitiveness	Determinants
Complementarity	Developing-countries
Complementary assets	Developing-country
Computer	Development competition
Conceptual-framework	Development cooperation
Conceptualization	Development project performance
Conferences	Development spillovers
Configuration	Development subsidies
Confirmatory factor-analysis	Development success
Congruence research	Development-projects
Consequences	Diffusion
Consortia	Dimensions
Construct	Direct foreign-investment
<b>Construction</b>	Direct-investment
<b>Construction-industry</b>	Display industry
<b>Constructs</b>	Dissemination
Context	Distortions
<b>Contextual factors</b>	Diversification
Contingency approach	Diversity
Convergence	Domestic firms
Cooperation	Dominant designs
Cooperative research	Dominant logic
Coordination	Drug discovery
Core necessities	Duopoly
Corporate entrepreneurship	Dynamic capabilities
Corporate governance	Dynamic capability
Corporate social performance	Dynamic theory
Corporate-strategy	Dynamic-capabilities
Corporations	Dynamics
Corruption	E-business
Cost reduction	<b>E-business technologies</b>
Costs	E-procurement
Count data	Eastern

Eco-innovation	Existing knowledge
Econometrics	Expansion
Economic-development	Expenditures
Economic-geography	Experience
Economic-growth	Exploitation
Economic-performance	Exploration
Economics	Exploratory analysis
Economies	Exploratory innovation
Economy	Export
Education	<b>Exports</b>
Efficiency	Extension
Electric utility industry	External knowledge
Electronic knowledge repositories	<b>External knowledge acquisition</b>
Electronics industry	External networks
Embeddedness	External technology
Emerging economies	<b>External technology integration</b>
Emerging market	Externalities
Empirical-analysis	Faculty
Empirical-evaluation	Failure
Empirical-evidence	Family firms
Empirical-examination	Fdi
Empirical-test	Field
Empirics	Financial performance
Employee creativity	Financial research
End-of-pipe	Firm
Endogenous growth	<b>Firm capabilities</b>
Endogenous spillovers	<b>Firm innovation</b>
Enterprise systems	<b>Firm performance</b>
Enterprises	<b>Firm resources</b>
<b>Enterprises smes</b>	<b>Firm size</b>
Entrepreneurial	<b>Firm-level</b>
<b>Entrepreneurial orientation</b>	<b>Firms</b>
<b>Entrepreneurial proclivity</b>	<b>Firms export</b>
<b>Entrepreneurial ventures</b>	Fit
Entrepreneurs	Flows
<b>Entrepreneurship</b>	Foreign direct-investment
Entropy measure	Foreign ownership
Entry	Foreign parents
Environment	Foreign subsidiaries
<b>Environmental performance</b>	Foreign technology
<b>Environmental uncertainty</b>	Foreign-aid
<b>Environments</b>	Foreign-investment
Equation modeling sem	Fortune favors
Erp	Framework
<b>Erp implementation</b>	Future
Established firms	<b>Future-directions</b>
Europe	<b>Future-research</b>
Evolution	Fuzzy front-end
<b>Evolutionary</b>	Gap
Exchange	<b>Gaps</b>

Generalized-method	Information-systems
Geographic localization	Information-systems development
Geography	Information-systems research
Global strategy	Information-technology
Global value chains	Information-technology infrastructure
Goal-theoretic perspective	Infrastructure
Governance	Initial public offerings
Government	Innovation
Green management	Innovation capability
Growth	Innovation diffusion
Guanxi	Innovation performance
Health-care costs	Innovation strategies
Heterogeneity	Innovation systems
Heterogeneous panels	Innovations
High-tech	Institutions
High-tech firms	Instruments
High-tech industries	Integration
High-technology	Integrative framework
High-velocity environments	Integrative model
Hong-kong	Intellectual property
Horizontal acquisitions	Intelligence
Hotel industry	Intensive firms
Hrm practices	Interfirm cooperation
Human-resource management	Interfirm networks
Hypothesis	Intermediate inputs
Ideas	Intermediation
Identification	Internal capabilities
Imitation	International aid
Impact	International generation
Imperfectly appropriable research	International joint ventures
Implementation	International strategic alliances
Improvement	International technology diffusion
In-house	International-business
In-service organizations	International-business research
Increasing returns	International-joint-ventures
Incumbents advantage	International-trade
Indicators	Internationalization
Industrial	Internationalization process
Industrial clusters	Interorganizational collaboration
Industrial districts	Interorganizational networks
Industrial-innovation	Interrater agreement
Industries	Intrafirm diffusion
Industry	Intranet
Industry matter	Inventions
Inefficiency	Investment
Inertia	Investments
Inference	Isomorphism
Information	Japanese firms
Information technology	Job demands
Information-processing perspective	Job-satisfaction

Joint ventures	Management standards
Joint-ventures	Management-systems
Know-how	Managerial knowledge
Knowledge	Managerial ties
Knowledge acquisition	Managers
Knowledge creation	Managing knowledge
Knowledge creation capability	Manufacturing firms
Knowledge development	Manufacturing flexibility
Knowledge flows	Manufacturing performance
Knowledge life-cycle	Manufacturing practices
Knowledge management	Manufacturing sector
Knowledge spillovers	Manufacturing strategies
Knowledge structures	Manufacturing strategy
Knowledge transfer	Manufacturing technology
Knowledge-acquisition	Manufacturing-industries
Knowledge-based theory	Manufacturing-industry
Knowledge-spillover	Market
Labor mobility	Market entry
Large firms	Market orientation
Large-size	Market value
Latecomer firms	Market-structure
Latent-variables	Marketing capabilities
Learning capability	Marketing relationships
Learning outcomes	Markets
Learning perspective	Matter
Learning-processes	Maximum-likelihood-estimation
Least-squares	Me halfway
Legitimacy	Measurement error
Level	Measurement invariance
Level data	Mechanisms
Level evidence	Mediating role
Liberalization	Medium-sized enterprises
Licensing strategies	Medium-sized firms
Life sciences	Medium-technology industries
Life-cycle	Mergers
Link alliances	Metaanalysis
Linkages	Method variance
Linking	Mexican manufacturing-industries
Links	Microfoundations
Liquidity	Missing data
Local firms	Missing link
Local knowledge	Mnc
Local search	Mnc knowledge transfer
Localization	Model
Long-run growth	Models
Longitudinal analysis	Moderating role
Management	Monetary-policy
Management capability	Monopolistic competition
Management leadership	Motivation
Management research	Multibusiness firms

Multidimensional constructs	Orientation
Multinational companies	Outliers
Multinational-corporation	Output
Multinational-corporations	Output growth
Multinational-enterprises	Ownership
Multinationals	Panel
Multiproduct firms	Panel data
Multiunit organization	Panel-data
Nascent entrepreneurs	Partial least-squares
National culture	Participation
Natural-environment	Partnerships
Network	Patent
Network dynamics	Patent citations
Network position	Patent protection
Networks	Patent scope
Neural-networks	Patents
New-model	Patterns
North-south trade	Perceived risk
Oligopoly	Performance
Online communities	Personnel
Open innovation	Perspective
Open-source software	Perspectives
Openness	Pharmaceutical-industry
Operational capabilities	Plant-level
Operational performance	Plant-survival
Operations	Policy
Opportunities	Politics
Opportunity	Poor
Optimal cognitive distance	Postacquisition integration
Organization	Poverty
Organization science	Poverty reduction
Organizational ambidexterity	Power
Organizational antecedents	Prepared firm
Organizational assimilation	Process innovation
Organizational capabilities	Process innovations
Organizational capability	Process model
Organizational culture	Product
Organizational forms	Product development
Organizational improvisation	Product diversification
Organizational innovation	Product innovation
Organizational knowledge	Product introduction
Organizational memory	Product introductions
Organizational performance	Product modularity
Organizational practices	Product performance
Organizational research	Production networks
Organizational routines	Productivity
Organizational size	Productivity growth
Organizational trust	Productivity spillovers
Organizational-change	Project performance
Organizations	Projects

Proliferation	Sample selection
Propensity score	Sample-size
Prospects	Science
Protection	Scientific-knowledge
Proximity	Scientific-research
Psychic distance	Scope
Psychological empowerment	Search
Psychological safety	Sector
Public organizations	<b>Sectoral differences</b>
Public science	<b>Sectoral patterns</b>
Public-policy	Self-efficacy
Public-sector	Self-reported affect
Publication records	Sematech
Quality management	Semiconductor industry
Quantile regression	Sensemaking
R-and-d	Service context
Radical innovation	Services
Range	Shared-vision
Rationality	Shareholder value
Reconceptualization	Shareholder wealth
Regional clusters	Shocks
Regional innovation systems	Simulation
Regional networks	Six-sigma
Regional-development	Skill complementarity
Regions	Small firms
Regression	Small worlds
<b>Regressions</b>	Smes
Relational embeddedness	Social desirability bias
Relational governance	Social integration
Relational value	Social network analysis
Relational view	Social networks
Relationship management	Social-structure
Research agenda	Socialization tactics
Research collaboration	Sociology
Research joint ventures	Software
Research-and-development	Spanish firms
Resource complementarity	Spatial econometrics
Resource management-practices	Specification
Resource-based analysis	Spillovers
Resource-based view	Spin-off
Resources	Stable networks
Responsible care	Stagnation
Retrospective accounts	Start-up
Reverse auctions	<b>Start-ups</b>
Risk	State-owned enterprises
<b>Risk-taking</b>	Stickiness
Roles	Stock markets
Routines	Stock returns
Rules	Strategic alliances
Salesperson performance	Strategic change



Strategic choice	Technology-based firms
Strategic decision-making	Technology-transfer
Strategic flexibility	Technology-transfer offices
Strategic management	Tests
Strategic management research	Ties
Strategic organization	Tobins-q
Strategic renewal	Tool
Strategies	Toolkits
Strategy	Top management
Strength	Total factor productivity
Structural equation models	Total quality management
Structural holes	Trade
Subjective measures	Trajectories
Subsidiaries	Transaction cost
Subsidiary performance	Transactional leadership
Success	Transfer offices
Success factors	Transferring knowledge
Suggestions	Transformation
Supplier integration	Transformational leadership
Supplier relationships	Transition economies
Supply chain	Transition economy
Supply chain integration	Translation
Supply chain management	Transmission
Supply chain relationships	Transport
Supply chains	Trust
Sustained competitive advantage	Trust matter
System	Turbulent environments
System use	Uk
Systems	Uk manufacturing firms
Systems research	Uncertainty
Tacit knowledge	United-kingdom
Taiwan	United-states
Talent	Us
Teams	Us pharmaceutical-industry
Technological acquisitions	User acceptance
Technological capability	Validation
Technological discontinuities	Value creation
Technological diversification	Venezuela
Technological diversity	Venture performance
Technological innovation	Ventures
Technological search	Vietnam
Technological-change	View
Technological-innovation	Volatility
Technologies	Weak ties
Technology	Welfare
Technology diffusion	Wine cluster
Technology firms	Work
Technology flows	Work commitment
Technology professionals	Work group cohesion
Technology spillovers	Work practices

Work-related attitudes